

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Dan Keen <70731.722@compuserve.com>
Subject: [11856] .HAM .QRP .MORSE .???
Message-ID: <970213035812_70731.722_EHM77-1@CompuServe.COM>

Those folks with an online newsreader, such as the Associated Press, might be interested looking today for the stories about how the INTERNET SOCIETY and the INTERNET ASSIGNED NUMBERS AUTHORITY is getting all set in May or June to make many new additions to the internet address endings. Used to be there were only a few like .com .org .edu .mil and so forth.

The new endings will have three four five or even more letters. For instance .store will be the new ending for retail sales addresses. The news stories list the about a half dozen new ones and there will probably be many more a bit later so they say.

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Phil Sikes" <psikes@whidbey.net>
Subject: [11905] 12 volt 2.3 Ah Battery
Message-ID: <199702131725.JAA02956@islander.whidbey.net>

Hello to the group. I recently bought a 12 volt 2.3 Ah battery from All Electronics and thought I would pass on the info to those interested. It is a sealed lead acid type battery designed for cellular phone use, but works great for QRP and hand held applications. It comes with a wall charger and cig. lighter adapter and the best part is the price, \$20 for a new one and \$9 for a used one. The part number for the new one is GC-1223K and the used one is GC-1223U. The catalog number is 696. No connection to the company, just a happy customer.

72 - Phil
Phil Sikes - KJ7NS
ARCI #9196 - QRP-L #528
FISTS #2602 - NW QRP #412

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: [11883] 20 M SSB/CW/DSP for sale :-(
Message-ID: <01IFCZ2EW7QQ8WYABX@tntech.edu>

OK, this is going to be one of those sad moments in my life. I am going to have to sell the following portable set up. This is one

of the BEST portable rigs I have ever used. I had one before had to sell it.. then had to get another one and completely set it up. I have worked major contests with this on SSB. The built in processing really gets the signal through. I have had people stop while running contacts at high speed, after I told them I was QRP, and they stopped and talked. The mike that matches seems to do a better job than the one MFJ provides, I did a side by side for an evening and asked opinions (I had my choice).

MFJ9420 SSB small portable, durable transceiver
CW adaptor added
Radio Shack DSP unit included
hand mike included

\$275 shipped US

72
Jeff, AC4HF

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: kd1jv@juno.com (Steven Weber)
Subject: [11941] 38s in WorldRadio
Message-ID: <19970213.164734.8055.1.KD1JV@juno.com>

Just got a copy of "WorldRadio" in the mail. Nice write up on the 38s by KI6SN in there.

Looks like Jim might get busy again.

de KD1JV Steve

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Jim R. Hatfield" <jhatfiel@mail.orion.org>
Subject: [11843] 38s TX DIED
Message-ID: <Pine.SOL.3.91.970212193806.1426A-100000@orionc0>

The 38s worked great even had a contact.now it's tx quit.Using the voltage table(tnx paul).U4 pins 1,13 7.99v = 0v tx

11 0v =.67 tx

I assume u4 has died,any comments are are requested,

should r14 be increased to cut down the voltage?

7s

qy

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Thomas J. Whalen" <whalen@swcp.com>
Subject: [11930] 49er question
Message-ID: <Pine.SUN.3.91.970213133003.23693A-100000@kitsune.swcp.com>

Hi All fellow QRPers! I have the 49er completed and only have one problem. Seems like after you transmit the receive doesn't come back right away. Sometimes you have to send some dits to get it to snap back. Also I did the 380 mod and have great audio. Thanks to the folks that gave me that tip. Now, on to the 38s! Tom WB5QYT

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>
Subject: [11922] 8 VDC Batteries
Message-ID: <Pine.A41.3.95b.970213111948.33932B-100000@homer34.u.washington.edu>

On the advice of a member of the NW-QRP Club I visited Radar Electronics located at 168 Western Ave., in Seattle, Washington, zip 98119. Their phone number is: (206) 282-2511.

They have surplus 8 VDC, 3Ah, sealed lead acid batteries manufactured by Sonnenschein from Germany. The model is dryfit(tm) A200. They are marked bad and surplus by Physio Control, the defibulator manufacturer. There are two in a pack stuck together with double sided sticky tape. The price is \$6.95 per pack. I bought a set, separated them, and have charged them to full capacity in just a few hours using a variable power supply. Word is Physio wanted to use these in an inverted position and the manufacturer said no way.

Would be interesting to put one of these on a 38S in place of the 7808 regulator IC.

Radar also is selling a voltage regulator circuit on a pcb board for 25 cents each. Again this info was provided by a NW-QRP Club member. Uses a Hitachi 723 IC. Requires a couple precision resistors for voltage reference and a pass

transistor. The solder mask appears to have some mold on it.
(What doesn't in the great North Wet?) Cleans off with soapy water.
Makes a good battery charging circuit.

Stephen Lee, AB7HI

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "j.w. thornton" <dub@oklahoma.net>
Subject: [11851] address for Embedded Research:
Message-ID: <3.0.32.19970212213958.00b0f9b8@okc.oklahoma.net>

Hey guys: Can anybody help with a phone number, or email address for
Embedded Research in Rochester NY? I have a buddy who is too eager to get
an audio filter on the way for an Argosy II to wait for two way snail mail.
I got plenty of help on the previous request for the filter, went out to
the web page of Embedded Research, found the price, etc. but no way to
order cept snail mail.

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "HS2JFW/QRP,Joe" <a37s0112@orchid.bu.ac.th>
Subject: [11844] Also Work V5/ZS6YG
Message-ID: <Pine.SOL.3.95.970213100601.1190B-100000@orchid.bu.ac.th>

Hi friends,

I also work V5/ZS6YG on 20m last night. He 599 in Bangkok.
I work him with MFJ-9020 running 5 watts to inverted-Vee.
He's my new countries worked. Good luck.
Joe

Pornchai Semjang ,Joe QRP-L #938
HS2JFW , N3YGP QRP-HS#1
Bangkok University or hs2jfw@hotmail.com
a37s0112@orchid.bu.ac.th or hs2jfw@amsat.org
or hs2jfw@callsign.net
HomePage "<http://www.geocities.com/Hollywood/7227>"

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: k5vp@earthlink.net (Kevin Potter)

Subject: [11908] Antennas

Message-ID: <v01550100af28916ac583@[206.250.111.127]>

Ken--

A few weeks ago I posted a question about antennas. I thought I'd let you know what I did.

Bruce, W6TOY, mentioned a variety of wire antennas & then, just as a passing comment, mentioned he had heard that Gap antennas were good.

I looked up Gap on the net, found their webpage. Didn't totally understand everything I read but was impressed that it didn't make any difference whether it was mounted high or low. I ordered their Titan model. Took my time & put it together, about 6 hours. Another hour I had it ground mounted for testing. Everything tested ok except for 15 & 80. A call to Gap solve both problems:

extend 1 radial for 15 meters & traded a 'cap' unit inside the antenna for the area of 80 that I want good SWR.

So, I got to use it Saturday eve & some of Sunday. Worked everyone I heard, with no more than 100 watts, including an FR6 in a 20 meter pile up.

This weekend I'll be move the antenna to it's permanent location including painting it for camouflauge effect.

So far, I'm very happy with this unit, 10 thru 80 in one 25 foot vertical antenna at about 25 pounds. All I can say is "WOW!"

Yes, I'd like to have the situation for a big antenna farm but my QTH won't allow for it. This is a very good antenna, for my situation. Now, if I can just get home early enuf to do some fox hunting & turn my power down to 10 watts.

I am no way associated with Gap antenna, all moneys have been strictly to them & no freebees have offered to me & all that other diclaimer stuff.

Kevin

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: ed.welch@cheaha.com (ED WELCH)

Subject: [11838] ARRL dues due for me,....what to do...

Message-ID: <8D1E464.00040009C6.uuout@cheaha.com>

My membership dues are due again for ARRL membership. I've heard some conflicting reports of the "worthiness" of ARRL and I'm trying to decide to re-up or not. Anybody have any input on this for me, either negative or positive. Being as the ARRL is the largest voice of amateur radio that's a plus for supporting it, but if the ARRL isn't listening to us little guys that's another story. I'm looking for input from both sides of the coin. Please reply EMAIL so as not to clutter the list too much...which I think I already do. :) I'll post the +/- score later.

Tnx.

72/73

Ed Welch KF4KRV

QRP-L #873

Luverne, Alabama

Crenshaw County - Grid EM61

```
+-----+
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----
+-----+
```

> Isn't "time" a 4-letter word? <

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: [11948] CA vs TX
Message-ID: <199702132221.WAA23500@chuck.dallas.sgi.com>

OK guys, you now gone and done it:

Look at the schedule remaining

Feb 18	0200-0400	KA5DVS	Jim	NJ
Feb 21	0200-0400	AE9K	Brian	WI
Feb 25	0100-0300	AA1IK	Ernie	NH
Feb 27	0200-0400	W5TFB	Jack	TX
Mar 5	0400-0600	N6WG	Bob	CA
Mar 7	0100-0300	N9DD	Tom	IN
Mar 12	0200-0400	KU7Y	Ron	NV
Mar 14	0100-0300	N2TNN	Dean	NJ

Mar 19 0200-0400 WA1GUV Tom VT

Do you see the big picture? Ah-ha. I knew you would. Looks like some hidden agenda to me.

How many FOXii do you see west of the Central Time Zone?

:-) ; -)

dit dit

What, did I hear someone say double or nothing?

SIG

Chuck Adams K5FO adams@sgi.com DXCC=8
http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: QRPDave@aol.com
Subject: [11864] Calling all kit builders!
Message-ID: <970213013223_583313426@emout20.mail.aol.com>

Dear Sirs; (My mom always taught me to call people I respect "sir.")

I ahve the geerm of what just might be a good idea. I am slowly losing my eyesight, and I am unable to build kits that have the solder pads too close together. On my latest kit, however, the manufacturer (I don't have permission to use his name--may in the future) is WONDERFULLY assembling the little puppy for a very modest fee. I am wondering if there is a cadre of hams out there who might be willing to assemble kits for hams who physically are unable to do it for themselves. This would probably be in three classes: free, for a small fee, and for a modest fee. I would like to list manufacturers who might be willing to assemble their kits for an added fee as well. Of course, this is within the time that the manufacturer might have to devote to what will most likely NOT be a financial profit to them.

Let me know if you think this idea is "stinko." Also, however, let me know if you think this is a good idea. I might be willing to organize and keep track of the list. Of course, all final arrangements would have to be born by the two participants in the agreement. I might also ask for a couple of references as to kit building ability, etc, to give some assurance to the kit owner. Thanks, guys and gals for the great help you have all been to me and to the hamming fraternity. QRP--that's for me!

QRPDave@AOL.COM or QRPDave@ocsnet.net

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: km@PACT.ORG.PE ()
Subject: [11877] cmos Super Keyer II & voltage
Message-ID: <m0vuznS-000VP0C@uurcp.rcp.net.pe>

I've consumed a lot of batteries (9 volt with the regulator). On the DX-pedition to Morgan Cay last two weeks I went through 2 9 volt jobbies in the 10 days of 2 graylines each plus some day time op. And I took the batteries out most of the time. I assume that the regulator continues to draw when the keyer is not in use. I did not use the sidetone either. I disconnected the battery so many times that the battery clip broke !

At home I've rigged a tap on the main 12 volt supply to the qrp rig with a reversed battery clip into the battery clip hooked to the keyer - no battery problems! No memory between uses either :>(

I think that the best solution to all of this is to forget the batteries and wire the keyer to the 12 volt source of the rig and use the regulator. Turn off the whole kit and kabuddle between uses and grind your teeth as you reprogram each time.

Good luck,

73,

Kris
OA4DB0

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Ted Albert <72437.651@CompuServe.COM>
Subject: [11868] Colorburst Sprint Reminder
Message-ID: <970213072625_72437.651_IHD39-1@CompuServe.COM>

The second night of the Colorburst Sprint is this Thursday, 2/13/97, from 9-10PM EST. The band was in excellent condition here in Ohio last week and many stations were copied from Louisiana to Canada. A number of stations were running crystal control. Don't forget that the Colorburst Sprint presents a great opportunity to

get

contacts with that Pixie or 80-9er rig, and you may get the opportunity to work a QRP glowbug station, as members of the Glowbug list will be joining us for this event. Attached with this note are the rules for the Colorburst Sprint.

We have snow in the forecast for Thursday night in the Cincinnati area, just the right weather for an evening of QRP fun on 80 meters. Hope you can join us!

72 de Ted, KF8EE
NE404

Announcing the :

QRP-NE (QRP Club of New England)

79er SPRINT

When: Each Thursday evening during February and March, 1997

Modes: CW - Crystal and VFO Control

Freq: ~ 3.579 MHz

Power Level - 5 Watts or less output power

Time: 9:00 - 10:00 p.m. EST

Exchange - RST QTH NE#X NAME; ie.....579 OH NE404X Ted

Members use QRP-NE number; NE404 and add X if XTAL control; NE404X

Non-members use Power Level; 4W and add X if XTAL control; 4WX

QSOs are cumulative: Work the same station on subsequent Thursdays.

Score: QSOs X SPC. Crystal Station Bonus: Total score X 1.5.

The 79er transmitter was NE-QRP's first club project. It uses a 3579.545 kHz crystal to set the frequency. These crystals are used in the colorburst oscillator of all color TV sets in the United States and Canada, and in other devices as well.

The 79er event is an on-the-air get together, not a contest. Crystal-controlled stations append the letter "X" to their calls, such as "KF8EE/X." Yes, it's legal. We hope this event will stimulate everyone to build a crystal-controlled transmitter to use during the event!

Send Logs to: Ted Albert, KF8EE
1924 Timberidge Drive
Loveland, OH 45140

(or)

e-mail Logs to: 72437.651@compuserve.com

Logs need to be received by April 30, 1997. Results will be published in "72". State Output Power Level, Type of Rig, and Antenna Type on logs. Include comments on the event or how you built your crystal-controlled transmitter for inclusion in the report in "72".

Watch out: W1AW transmits bulletins at 10:00 pm. on 3.581 MHz

Transmitter Reference articles:

In case you were wondering, "79er" comes from 3.579 MHz

Articles abound on building a simple crystal-controlled transmitter for 80 meters. Try the "Universal QRP Transmitter", page 26 of "Solid State Design " (ARRL), or "The Oner" (Sprat), or "The Cubic Incher" (ARRL), or "The 79er"/"Colorburst Special" (QRP-NE).

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Doug Hendricks <ki6ds@dpo1.k12.ca.us>
Subject: [11935] DXCC QRPP NOT! WHY?
Message-ID: <1.5.4.16.19970213135623.47f7ecba@telis.org>

Guys for those of you thinking about joining or renewing your ARRL membership, how about sending an email message to Dave Sumner and asking him why the ARRL DXCC committee refuses to offer a QRP endorsement? The ARRL does it for other awards that they give, they have it as a category in sweepstakes, they publish books about it, but why don't they have a DXCC QRP endorsement?????

Hope you get a better answer than I did.

72, Doug, KI6DS

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: EScott@gstworld.net (Erin Scott)
Subject: [11900] FCC proposal
Message-ID: <0001360A.3117@gstworld.net>

Might this FCC proposal be just the thing to get the cable industry moving down the road towards fast internet access. Seems to me that the telco's wouldn't have a problem with congestion if we didn't have to use them for access to the net. I would be willing to discuss the details of the problem with net usage (from a network engineer's viewpoint) off-line just email me SEE YAH>>>

Erin Scott KC7LEU
escott@gstworld.net
ekscott@ibm.net
KC7LEU@N7UVH.#NID.ID.USA.NOAM

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: SEAB&SHARON LYON <SSLYON@worldnet.att.net>
Subject: [11853] First DX....
Message-ID: <19970213035330.AAA16124@LOCALNAME>

>I was excited as rip about it and pranced around the house telling the
>wife and kids all about it. Quickly I checked BuckMaster and found his
>address and a QSL card along with a postage coupon went to him the next
>day.

>

>Today I received his QSL card and below is a quote of the rough
>typewriter typed letter included with it.... ..

>

YOU really captured the rush of DX at it's best.... and don't ever forget it! Even if you don't get the chance to visit those folks, "imagination is a wonder-full thing"! Since late-nite daydreaming as a 1940's pre-teen... listening to my one-tube super-regen, I've had the priviledge of actually travelling to three contenents and meeting folks whom I can only describe as "other-worldly"... and believe me, it really doesn't matter what religion, language, color... we really are human beings with a spirit that can, when allowed, transcend any temporary construct of political, religious, or other philosophical convenience. GO FORTH AND CELEBRATE! 73, =S=

"Seab" Lyon - AA1MY
Bethel, CT; FN-31-HJ
ARCI#9253; QRP-L #574

NEQRP#511; ARRL; QCWA

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: ed.welch@cheaha.com (ED WELCH)
Subject: [11839] First European DX....QR0, but frameable. :)
Message-ID: <8D1E44A.00040009C5.uuout@cheaha.com>

I upgraded to General at the end of December. Shortly thereafter I built a 20m 1/4 wave vertical out of some discarded chicken house water pipe. Well, I didn't have a qrp rig for 20m (working on fixing that!) so I cranked up the TS-450 to abt 75 watts (See, I felt guilty. :)), and started listening. This was on January 4th.

I heard a weak CW CQ call coming through the noise and finally made it out as S57FS. Well, I didn't have a clue as from where that call was originating, but I figured "what the heck!". About the time I started to answer six or seven other stations started calling him. I'd never been in a pile-up and wasn't sure what to do so I did the only thing I knew to do....send my call at my comfortable copy rate (slower than 13wpm), though I figured it was a lost cause.

Well after I ended my call and the rest of the stations quieten I started hearing "K F 4 K R V K F 4 K R V de S 5 7 F S". I almost fell out of my chair!

Conditions were pretty bad, with some QSB but I did manage to pull a 559 from him. Normal contact info was exchange and as the QSB increased we both sent our 73 and signed off. I ran to my atlas to find SLOVENIA sitting just to the east of Italy on the north shore of the Adriatic Sea. WOW!

I was excited as rip about it and pranced around the house telling the wife and kids all about it. Quickly I checked BuckMaster and found his address and a QSL card along with a postage coupon went to him the next day.

Today I received his QSL card and below is a quote of the rough typewriter typed letter included with it....

Dear OM Ed !

I was pleased with our radio-conection
on 14 Mc, too.And very glad to recevie Your
letter and nice Qsl Card. Thank You for everything.
Lately I do not work much on 21 and 14 MC,because

the conditions for DX conections are very bad.
I have been in ham-radio since 1928. In 1932 I
made first DX contacts. I had great pleasure with
telegraphy. From USA only I have got about 30.000
Qsl-cards. I work wit old aparatus: TRIO TS-510
and YAESU FT DX 400. Everything is used up -
aparateus and me with my 87 Years.

I hope and wish to meet You on band again.

Best wishes and good health to You and

Your family. Very best 73

Ivan
S 5 7 F S

The QSL card will be a very special one for me, but the accompanying
letter means a whole lot more!

Sorry to clutter this crowded list with this, but I did want to share it
with you.

Receiving this in the mail made my day/week/month(?)/year(???). :)

72/73

Ed Welch KF4KRV

QRP-L #873

Luverne, Alabama

Crenshaw County - Grid EM61

```
+-----+  
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----  
+-----+
```

> Isn't "time" a 4-letter word? <

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: kd1jv@juno.com (Steven Weber)

Subject: [11890] fix 40 M band plan now!

Message-ID: <19970213.102805.4863.1.KD1JV@juno.com>

Okay, given that 40 meters is the most popular HF band there is, and the
current USA band plan does not jive with the rest of the world, I think
it's time something is done about it. Can we as a group make enough
noise and static with the ARRL and FCC to have some changes made?

Here's what I would do,

7.00 to 7.030 CW only. No license class sub segments. If your brave
enough to want to use Morse code, do it here! The new QRP freq could be

7.025

7.031 to 7.050 digital modes, including high speed keyboard morse. Notice 1 Khz buffer between 7.30 and 7.31.

7.05 and above, SSB splatter and chatter.

I say get rid of the license class sub bands on 40. Its a narrow and popular band, no need for that nonsense here. What would be really nice is a little more room at the bottom of the band, say 6.950 to 7.000

Look, I'm an Extra, but I want to talk to people, not have my own private slice of spectrum.

What do you think? I think this makes sence, and would make us more in tune with the rest of the world.

de KD1JV, Steve in NH

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: Ken Lopez <kjllopez@earthlink.net>

Subject: [11903] For Sale IC 735

Message-ID: <33034D3C.7B3D@earthlink.net>

Greetings,

For Sale: Icom IC 735, 250Hz CW filter, boxes, manual, SM 6 Mic, Matching Speaker, Bencher Paddle with MFJ Keyer. (no keyer in rig) All in very good shape: \$725.00 + shipping. I will sell the rig alone if you don't want a package.

I bought this rig from the original owner two months ago. He sent it to Icom for a check up, and to replace an internal fuse he couldn't see in the last year. I added a new 250 Hz filter. Nice shape except for some rub marks on the upper sides. The rest, including front panel, is like new.

Another friend has just offered me his like new IC 751a, a rig I once owned and really liked. So, the 735 must go! Hope I can find a good home for it. It is a great cw rig.

73, Ken, N6TZV

Ph 818-541-0712

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Carol N. Wright" <cnw@HiWAAY.net>
Subject: [11850] FOX
Message-ID: <Pine.OSF.3.94.970212213831.6236A-100000@fly.HiWAAY.net>

Well I think that I snagged Larry at about 0326. I am not quite sure if he got all of my info though. I heard him come back to me but I am not sure if he got all of my info, as I didn't get his number. I guess that doesn't count as a FOX QSO? I was running the 40A with the KC1 installed.

I could barely hear him in the noise, believe it or not, the 40A has as good or better rcvr than the FT-840, 2 watts for the FOX, not bad for my first FOX. Hee Hee! Best 72 DE Matt, AE4JM
cnw@HiWAAY.net

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Marshall G. Emm" <mgemm@mtechnologies.com>
Subject: [11847] Fox and AT-11
Message-ID: <3302873C.17BD@mtechnologies.com>

First, managed to find time for a bit of fox-hunting this evening. Took me two shots be sure I'd nailed him, there was no question about the second one. Thanks, Larry-- nice job!

Second, the AT-11's for several of us here in metro Denver arrived, and I like to publicly thank Scott for putting it together-- nice job! to you too.

Finally, I'm reasonably impressed with the AT-11 (QRO) kit so far, although all I've done is solder in the IC socket. Yes, I know that is pretty well into the instructions, but I have a couple reasons for ALWAYS doing IC sockets first. If there's nothing else on the board you can lay it flat on the work surface and not have to worry about trying to hold it in place while you tack-solder a couple pins. Also it is easier to check the joints (about the closest spacing you ordinarily encounter) and finally if in doubt you can easily check for bridges with a multi-meter. Wait until you've got a bunch of other components on the board, blobs of resin on the tracks, etc., and it's a LOT harder.

73
Marshall
AA0XI

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: kb0rol@juno.com (Bradley L Mugleston)
Subject: [11863] FOX REPORT
Message-ID: <19970212.225533.7023.1.kb0rol@juno.com>

Well it was fun. I'm sorry about the sudden frequency changes but I moved things around in the shack and my key was too close to the tuning knob and I kept hitting it and changing the frequency. Lots of noise tonight but some of your signals nearly knocked my head off - You sure you were QRP??? Is this what the new cycle will be like but with out the noise? I sure hope so.

OK - Rig - Kenwood TS-830S at 4.5 Watts into a ground mounted Hy-gain 18AVT/WB-A vertical antenna with one radial (I know but its been a busy winter). Frequency was 7.112MHz

Time Z

Call	RSTr	RSTs	State	Name	Number
0235 K4WZ	569	559	GA	Ron	5W
0245 KU7Y	549	549	NV	Ron	17
0248 K5ON	579	599	NM	Gary	770
0252 KK6MC/5	579	559	NM	Jim	411
03?? W5XE	569	459	TX	Ray	256
0315 KN7MFB	459	459	WA	Bill	715
0334 AB5OU		339	239	ME	Tim 73

That was it. For the next hour I called and called. Dropped down to 7.108 but nothing there either. I even tried my G5RV but nothing. K5ON was really LOUD nearly blew my socks off and all through AB5OU there was a VOICE QSO going on US Hams too it sounded like - again real loud (the voice not AB5OU). I could just hear a few more of you but way down in the mud. Maybe next time - this time was a lot better than its been for awhile.

Well how did I do.

Brad Mugleston - KB0ROL
Colorado QRP Club # 170, QRP-L #316, ARRL
QTH - Aurora, CO - DM79oq
KB0ROL@JUNO.COM
BMUG@GWL.COM

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: Larry East <w1hue@amsat.org>
Subject: [11942] Fox Report Addendum
Message-ID: <2.2.16.19970213215201.2ca7c176@eloi>

Forgot to describe my setup:

Rig: NorCal 40A with built-in "CodeBoy" keyer.
Power out: 0.95W
Antenna: GAP Voyager vertical.

Not bad for 1W, eh? :-) :-)

72, Larry W1HUE/7
Idaho Falls, ID

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Brad Mugleston <bmug@gwl.com>
Subject: [11835] FOX TONIGHT
Message-ID: <01BC1906.620F4F80@pps-pc10.gwl.com>

Well ladies and gentlemen, in two and one half hours I will be home and on the air. Lets have a good time tonight.

See ya around 7.112 or 7.108 from 0230 to 0430Z

de KB0ROL, Brad

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Roger Hightower <n7kt@dancris.com>
Subject: [11846] FOX: Lucky shot
Message-ID: <330289F9.2CEA@dancris.com>

Wow!. Had a club board meeting tonight, and thought I'd miss the Fox. When it turned out that Randy, WJ4P was there with his outstanding rigs, the meeting took even longer, but well worth it.

If you haven't seen his prize-winning 49'er, his much-modified OHR-400 and the little Whiterook key with the built-in keyer, you've missed some very exciting stuff. What a builder/modifier this guy is.

Anyway, got home about 0315Z and thought I'd missed the fox for sure, but a check of his posting showed him to be on 'til 0330Z. Cranked up

the rig on 7.043 and there was Larry calling CQ. One shot, and bagged him.

Cool. Band is better than it has been. Hope lots of you had the same luck.

--

72/73 de Roger N7KT Mesa, AZ Grid DM43cj
NorCal 40-9er, NC38S, NC-40A, Cascade, OHR Explorer 20, 30M, OHR400,
HW-9
NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "William R. Colbert" <V31XE@dzdn.com>
Subject: [11845] foxes
Message-ID: <3302A23B.6B3@dzdn.com>

good to hear and work you Larry. Been trying to hear Brad, KB0ROL on 7112 - heard Ron-KU7Y work him along with K4WS, but I had no luck - almost heard you once and gave a call, Brad, but faded back into the hiss. Maybe next time. Good Fun, gang.

--

Ray Colbert, W5XE, SOWP 1064M, FISTS 2146
(also af852@rgfn.epcc.edu)
El Paso, Texas

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: QLF@mimi@magic.itg.ti.com
Subject: [11882] FOXES??
Message-ID: <9702131342.AA15619@itg.ti.com>

From: Brad Bradfield QLF

Subj: FOXES??

Where were the foxes last night? Heard nary a one here.

72's es 73's,

Brad, WB0CGH

Brad Bradfield, PE Electrical Design Engineer
(H) 817-321-2960 Texas Instruments, Inc.

(W) 972-462-6230

(Soon to be: Raytheon/TI Systems)
Real men talk with their fingers!

QLF@MSG.TI.COM

WB0CGH@W05H.#DFW.TX.USA.NA

ARRL Life Member QRP-L #377 SMIRK #4906 IEEE(M) ARS #72

Collector of wireless and landline Morse keys and accessories.

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: "Dennis L. Edinger" <dedinger@ecentral.com>

Subject: [11927] FS: OHR Exp II-30 Kit (New in Box)

Message-ID: <3303869A.7079@ecentral.com>

FS: OHR Explorer II-30 Kit (New in Box). \$100 (I ship). This is the big brother of the OHR 100 (at \$159) and in many respects is the superior rig.

de Dennis Edinger/w0gd
(303) 421-6329

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>

Subject: [11897] FS: Yaesu FT-840, Kenwood TS-520 STATION, 2m HTs

Message-ID: <Pine.3.89.9702131057.A7486-0100000@w3eax.umd.edu>

Have to clean up a bit.

For sale:

K'wood TS-520 with external VFO-520, SP-520 speaker and MC-50 desk mic. All in very exc. condition, with boxes, manuals, cables. \$425 for all. Classic rig, SSB/CW WITH 500 Hz filter, DC-DC converter (dropped on later models). Very rugged.

Yaesu FT-840 general coverage rig, about 2 years old. Near-perfect condition, with box, manual, and hand mic. Stock (no filters or FM unit), asking \$610 (about \$800 new). Easily dropped to QRP levels (check QRP Quarterly for how many of these are run during contests).

Am driving from MD to FL down I-95 and can thus meet along the way, if interested, this weekend.

Anyone looking for a houseguest for a night??? :)

CQ CQ de NF3I/4/QRP/M

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Jim Hydzyk <congress@magpage.com>
Subject: [11862] FSFD (50 States) Update for Feb. 13
Message-ID: <199702130428.XAA19688@alaska.magpage.com>

Hello ALL, (QRP activity info at <http://www.dancris.com/~ki7mn>)

Please read NOTE 1 at bottom of page.

The 50 States In 50 Days (FSFD) activity started Jan 01 and runs through Feb. 19. Below is a the schedule of the remaining States. We will attempt to provide digested schedules of states/times/bands/freqs to help reduce message traffic to the reflector. Typically, only 1 message per day.

ALL TIMES UTC

Feb. 13 Thursday UTAH UTAH AB7ST, Bob 1600-1700 UTC 10.118
1800-1815+ UTC 21.060
+ indicated will go longer if busy 2200-2300 UTC 14.055
2300-2400 UTC 10.118
0100-0200+ FRI-UTC 7.038

Feb. 14 Friday MISSISSIPPI K5XU, Mike 0000-0450 SAT-UTC 7.037+
0100-0145 SAT-UTC 3.556+
0200-0230 SAT-UTC 7.037+
0230-0300 SAT-UTC 3.556+

Feb. 15 Saturday WYOMING N7MR, Mike\ 2000-2100 UTC 14.051+
N0EKU, Ray \ 2000-2100 UTC 3.685+
KB0RFA, Dennis | 2100-2200 UTC 7.035+
Look for all 3 callsigns / 2200-2300 UTC 10.117+

KB0WSU, Raul

TBA

3 VIRGINIA N7RI, Ralph 1400-1600 UTC Top of Hr=14.060
Bottom of Hr=10.106
S 1900-2100 UTC same as above
Today 0000-0230 SUN-UTC 7.035-045
A 0300-0500 SUN-UTC 3.560 at

T
E
S

Top and Bottom of hr.

MISSISSIPPI DAYTIME K5XU, Mike We're working on it 15-40M

Feb. 16 Sunday WASHINGTON N7MFB, Bill 1600-1800 UTC 7.037
RTTY RTTY--> 2100-2300 UTC 14.086

SSB-QRP--> N7TCZ, Jim 1800-2000 UTC 28.385

KJ7NS, Phil 0200-0300 MON-UTC 7.112-115
0300-0400 MON-UTC 7.040-041

K7MP, John TBA TBA TBA

Feb. 17 Monday Washington D.C. N3FRT, Bob 1030 UTC 7.042
1100 UTC 7.110
1130 UTC 7.042
1200 UTC 7.110
1230 UTC 10.116
1700 UTC 21.125
1730 UTC 14.045
0000 TUE-UTC 10.116
0030 TUE-UTC 7.110
0100 TUE-UTC 7.042

WE5X/3, Steve TBA TBA TBA

Feb. 18 Tue. CANADA So far: VE3FLB/VE3JC/VE5RC/VE7CQK.
NEED MORE CANADIAN STATIONS!

Feb. 19 Wednesday VERMONT W1EAT, Tom TBA

Feb. 22-23 FYBO and FSFD Blow Out So far: AL7FS, KJ7UN, NR3Z, N7CQR,
WB0QQT, WS4S.

Like to get some 20M-30M action in the afternoon!!!

The FSFD Blow Out Weekend is in the planning stages to work with and in FYBO.
More info to follow. Looking for North Dakota this weekend.

NOTE 1. Most sign-ups came with a note saying they would go longer if busy.
Frequencies are +/- QRM & typ. may reach as far as 3-4 KHz from posted freq.
If am major QRP frequency is listed, like 7.040, it means close by if
possible. We will attempt to avoid being right on 7.040, 14.060, 10.116, etc.

CALLING CQ: A suggestion. If we call CQ WAS or WAS QRP de K6.... etc,

we give those not on QRP-L an indication of what we're doing. FSFD type calling might be too cryptic for all but ourselves. However 'FS' is fine when busy. Exchange RST, State/Province/Country, and Name. Power level is nice to know.

If you want to sign-up for an upcoming State, e-mail band/freq/time directly to:
congress@magpage.com

Remember, Jim K1MG starts up 50/40 activity next month. Watch for messages.

Jim K3QIO Wilmington, Delaware

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Jack Bryant <Jack.Bryant@math.tamu.edu>
Subject: [11859] FSFD and misc W5TFB
Message-ID: <199702130415.WAA07889@fourier.math.tamu.edu>

Well, let me sum it up: the demand for Texas was not brisk. Weather here was awful, cold, gail-force winds, driving rain, conditions almost as bad, but there was a silver lining on it all, at least on the FSFD.

Item: worked AA8EB on 20-30-40; he was using 3W to an attic loop antenna. I think Mike would do us all a service by telling how he did it. He was crummy on 20, but on 30 a solid 589, and on 40 a 579.

Item: worked KF2PH/M on 30. Nick was using 2W to a hamstick (whatever that is, some kind of mobile antenna I think). He was 559.

Item: worked my first 38 on 30. It does not chirp. That is not what chirp means. The time constant of the frequency change while keying is about 100 ms. Maybe a little more. It sounds like the radio is driving the xtal harder in tx than in rx so that you get some fast thermal freq shift. If there is something else that would cause what I hear tell me. The thermal mass of the xtal has to be small. This is just a wild guess...

Summary: 20/10 Q's, 30/13 Q's, 40/6 Q's, and 80/3 Q's. 22 states.

-Jack W5TFB

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: bkmak@airmail.net (Bob Kmak)
Subject: [11888] FSFD Texas Log
Message-ID: <m0vv2TK-0000rpE@mail.airmail.net>

Well, Mother Nature wasn't very cooperative last night. Rainy weather in Texas meant high QRN on 160 and 80 meters. Thanks to all who called, and sorry to those I couldn't hear well enough to copy. Here's the log:

160 meters

Time	Call	Sent	Recvd	State	Name
0050	N5SU	5NN	5NN	TX	Whit
0206	N4ROA	44N	44N	VA	Dan
0220	K0SM	55N	55N	NE	Andy
0252	AA8VE	55N	33N	MI	Jeff

80 meters

Time	Call	Sent	Recvd	State	Name
0102	K4NK	55N	44N	SC	Les
0107	AC5AM	55N	56N	AL	Bob
0115	KU4AF	55N	45N	NC	John
0132	KE3JC	?	33N	?	John
0148	W2DP	54N	33N	NJ	Bill
0320	KS4HQ	55N	57N	TN	Bob
0336	K4YZ	5NN	57N	TN	Steve
0346	AA9KH	55N	33N	IL	?
0355	W8BDR	55N	44N	AZ	Del

QTH: Richardson, TX
Rig: TS-850SAT (5W)

160m antenna: Inverted-L at 35', 4 radials on gnd
80m antenna: Homebrew 40m vertical at rooftop fed with ant. tuner

73,

Bob K5W0

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: Mike Robinson <miker@cc.com>
Subject: [11901] FSFD Wyoming!
Message-ID: <9702131641.AA25863@voder.nsc.com>

FSFD'ers,

Here comes Wyoming.

Ray N0EKU, Dennis KB0RFA, and myself, Mike N7MR
will be offering up Wyoming this saturday afternoon.

We probably be operating under my callsign: N7MR

We'll have several rigs and antennas. We are
scheduled to work from a Junior High in Cheyenne.
Paul KI7TS, a teacher, has generously offered his
antenna farm there.

Proposed schedule:

2000z-2100z 14.051 +QRM
2000z-2100z 3.685 +QRM
2100z-2200z 7.035 +QRM
2200z-2300z 10.117 +QRM

If you are Novice or Tech+ let me know we'll
accomodate with a bottom of the hour N/T change.

That's UTC! For those that are zulu impaired:
Mountain time: 1pm-4pm

+QRM means that if a manmade signal is on top of
us we'll move up 1KHz at a time until clear.

We'll be calling at about 15wpm and will match
any slower speeds.

Calling: CQ FSFD de N7MR

Exchange (correct me here): RST State Name

Comments are welcome.

```
=====
72 de Michael N7MR      miker@cc.com      michael@frii.com
      http://www.frii.com/~michael
      QRP-L #126      Norcal #857      CQC #180
=====
```


From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Mike Robinson <miker@cc.com>
Subject: [11951] FSFD: Wyoming POSTPONED!
Message-ID: <9702132147.AA15942@voder.nsc.com>

FSFD'ers,

This weekend is the ARRL CW DX contest. There is
no way we're going to get through as qrp.

I'm going to postpone for 1 week. On saturday, 22nd,
is the FYBO weekend and the FSFD blow out (still being
planned). This will work much better for everyone.

Is there a contest that weekend?

So look for the announcement next week for FSFD from
Wyoming.

=====
7.3 de Michael N7MR miker@cc.com michael@frii.com
 http://www.frii.com/~michael
 QRP-L #126 Norcal #857 CQC #180
=====

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: k5vp@earthlink.net (Kevin Potter)
Subject: [11963] ft101zd to 5 watts, possible?
Message-ID: <v01550100af28ea7a00ea@[206.250.111.35]>

Having just acquired the radio, I have found it will only drop to 10 watts.
What do I need to do to get to operate at 5 watts or lower? The output is
a pair of 6146s.

Thanks,

Kevin

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Dave Fifield <fifield@pacbell.net>
Subject: [11873] HB: 38S Thumps
Message-ID: <3302A535.2DE4@pacbell.net>

Lee wrote:

> If the sidetone is being generated by logic circuits, I think you
> will find that the thump is coming from the DC shift that occurs
> as the sidetone is being turned on and off.

Good theory Lee! I too thought it might be related to this so I tried totally disabling and disconnecting the sidetone circuit and it still thumps. So it's not that either.

BTW, all inputs, no matter how "hairbrained" you think they are, are very welcome! You definately are not "speaking out of turn" Lee. I'm almost completely out of ideas myself, so any new theories will be useful. Maybe you should get a 38S and solve the thump for us ;-)

Thanks es 72, Dave Fifield, KQ6FR

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Dave Fifield <fifield@pacbell.net>
Subject: [11872] HB: LMC662 Replacement for NE5532
Message-ID: <3302A75B.6334@pacbell.net>

I fully endorse the use of the CMOS LMC662 as a replacement for the older Bipolar NE5532. National Semiconductor has some great new CMOS op-amps, audio power amps and low dropout voltage regulators!!

You can look up datasheets on the web by following the trail from:

<http://www.natsemi.com>

Usual disclaimers DO NOT APPLY - I work for National Semiconductor Corp. so I'm totally biased!!! ; -)

72, Dave Fifield, KQ6FR

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Bensondj@aol.com
Subject: [11894] HB: NE5532s
Message-ID: <970213104733_206132838@emout07.mail.aol.com>

Hi Glenn-

on Feb.12, Glenn Swanson <gswanson@arrl.org> wrote:

>> Like the 38 Special(?), my NN1G SW-40 uses a NE5532 op amp.
With that in mind, here's another gem from KB6FPW and AE6C
as quoted from the book "QRP Power:"

>> <snip>

>>KB6FPW: "5 to 8 mA of the 22 [the SW-40 draws in receive] are wasted away
>>warming the NE5532 (a JRC device was supplied as a substitution in the
>>kit)."

>>"AE6C: You don't have to use the current-hungry op amp in the kit. The dual
>>pinout is an industry standard and many newer products will give you
>>equivalent or better performance for far less current. I chose an LMC662.

When I designed the SW-40, the NE5532 was a good choice from a cost/performance standpoint. Before I used it, Zack Lau had specified it in his 'QRP 3-bander'. Its internal limiting delivers considerably more current than the other garden- variety op-amps. In practice, it yielded about 10 dB more audio (into low-impedance phones) - before limiting onset- than the other devices I tried. I found this trade to be worth the added 5 mA or so of supply current, and I'd suspect Ori reached the same conclusion with the 38 Special. In the case of the 38S, the decision to spend- or not- an extra buck-and-a-half on parts for a \$25 kit was likely a very simple one.

Thanks to Glenn for mentioning this change- a worthwhile improvement for battery/portable operation. :-)

73, Dave Benson- NN1G

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Dah-Jyuu Wang <ddw2@Lehigh.EDU>
Subject: [11892] Homebrew L/C meter (followup)

Message-ID: <1.5.4.32.19970213153128.006aac2c@lehigh.edu>

It seems that my last post had generated a lot of interest among the group. So I went home and dig up the article, it is published in the June 1996 issue of Electronics Now. For those who can get access to the magazine I had setup a temporary page at <http://www.lehigh.edu/~ddw2/lcm.html>. It contains the schematics and PCB layout and some specs. It is temporary as I am afraid this might infringe the copy right of the author/publisher, so it may not be there for long. I know there is at least a lawyer in this group may be someone can explain to me whether this is allowed (I basically scanned the two artwork from the article). Anyway, I hope this helps.

DJ N2YKP/3
Dah-Jyuu Wang, Ph.D.
Department of Chemistry
Lehigh University
Bethlehem, PA 18015-3172
610-758-3463

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [11840] Homemade Bugcatcher

I've been asked to provide details on my extra cheap homemade bugcatcher. I've posted a couple of JPEG files describing the beast to my web site at:

<http://people.delphi.com/CecilMoore>

73, Cecil, W6RCA, 00TC

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Larry East <wlhue@amsat.org>
Subject: [11910] IRF510 deal?
Message-ID: <2.2.16.19970213180146.2d073b94@eloi>

>

>Dan of Dan's Small Parts and kits has just put IRF 510's on special at

>

>5 for \$4.50!

>

Gee... that's even better than RatShack's regular price of \$1.99 each... :-)

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: tahrens1@juno.com (Tim H. Ahrens)
Subject: [11945] K50N - Gary - where are you
Message-ID: <19970213.161234.2583.2.tahrens1@juno.com>

Hi Gary - got your Fox qsl returned from
the Central Ave Address. Could you
please update me?

Thanks,

Tim W5FN

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [11855] LDG AT-11 construction pitfall (oops!)
Message-ID: <Pine.3.89.9702122201.B6084-01000000@w3eax.umd.edu>

My friend Bill, K3MHZ, bought one of these dandy AT-11 kits during the
group purchase.

With a fair amount of building experience between us, he brought over his
board with the 14-pin header and we agreed "there no way it's gonna fit
in that board with them thar holes. They are tooooo small."

So we proceeded to take a PC board drill and remove a tiny, teeny bit of
material from each hole.

Little did we realize that the material we'd removed was plating.

Plating makes good contact on double-sided boards, which this is.

After three hours of diagnosing and checking and rechecking the board
tonight, we agreed, "seems like there's contact missing here. I wonder
if the board's missing some plating..."

The plating we'd removed. We pulled the plastic collar from the 14-pin
header and soldered the TOP side of the pins to the board. Of course,
the plastic collar would no longer fit, so we just mashed the connector
onto the pins and VOILA!

Perfectly working unit.

Moral:

Never drill out plated thru holes. Now back to operating.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Bruce Hopkins - KL7JAF <kl7jaf@polarnet.com>
Subject: [11921] LDG QRP Tuner Enclosure
Message-ID: <l03010d00af291c141b26@[204.119.15.18]>

Hi Gang...

First let me say thanks to Scott Rosenfeld for all his efforts on the group purchase of the LDG tuner kits... A job well done !!!

The enclosure for the QRP tuner is a new item for LDG... I talked to Dwayne about it and decided to give it a try sight unseen... It makes for a very neat, tiny, and professional looking package... It includes the case, all switches, LEDs, power and antenna connectors plus hardware... Just the switches connectors and leds would run over \$25 here in Fairbanks so I got a beautiful looking enclosure for free in my estimation...

I will have some pictures of this enclosure with the tuner mounted in it in the QRP section of my web page... Should be there by this afternoon... Take a look...

72 / 73 / oo's - Bruce - KL7JAF

Web Page: <http://www2.polarnet.com/~bhopkins>

"Alaska QRP Club" - Web Page: <http://www2.polarnet.com/~akqrp>

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: [11884] Manual tuner

Message-ID: <01IFCZ8TDNAW8WYABX@tntech.edu>

I have to sell the following as soon as my autotuner is up and running:

AEA ET1 manual tuner. perfect functioning shape, some scratches on the top case.

It has cross hair needles and you can directly read swr and power. it has 2 ranges 0-30W, 0-300watts.

2- coax antenna connections
1-wire connection
direct thru for either of coax

I have found by cross checking with my Oak Hills QRP meter that the readings at QRP level are very very close.

\$80 shipped

72
Jeff, AC4HF

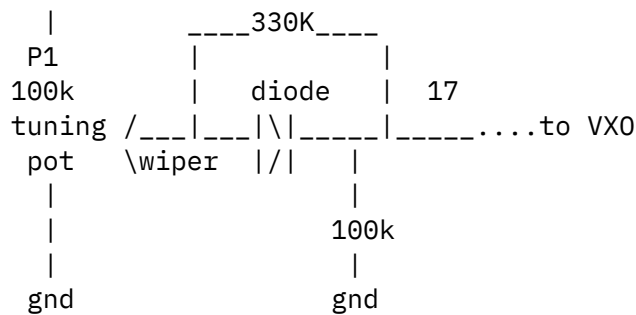
From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
Subject: [11926] NC38s:Linearized tuning cct
Message-ID: <1997Feb13.152001-0500@[130.113.234.7]>

Doug has thrown out the 38s DX challenge.
That means many will be lurking down at the bottom end of the band, where the 38s's tuning range is pretty quick.

The tuning pot controls the D.C. VX0 voltage going to the 1N4004 tuning diode. One suggested solution to help linearize the tuning range adds a resistor from wiper to ground. Good idea. This resistor will most affect the top end of the band, where tuning is very slow. But the bottom end could have still slower tuning.

So we need a non-linear element to give us something like an exponential rise in VX0 voltage, while the pot wiper voltage rises linearly. Sounds like some kind of diode fits the bill. Here's one possible circuit:

+8v-----
|



The diode will most affect the tuning range down at the lower end of the band, stretching it out. You'll lose a little frequency range, because the VX0 voltage can't get all the way up to +8v. So the rig won't go quite as high in frequency as it did before.

You could use a 1N914 type diode here, but a RED light-emitting-diode will extend the slower tuning a little higher in frequency, a GREEN L.E.D. will extend a bit more.

You can play with the two resistor values to change the tuning effect. Decreasing the 100k resistor will slow the tuning more, as will increasing the 330k.

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
 From: "Dan Tayloe-P26412" <Dan_Tayloe-P26412@email.mot.com>
 Subject: [11914] New Vanity Call
 Message-ID: <M29433078.050.jwhs7.1.970213165847Z.CC-MAIL*/OU=SATCG/OU=AZBH/PRMD=MOT/ADMD=MOT/C=US/@MHS>

The FCC must be getting their computers up and running again. I filed for a new one electronically about the end of December.

I just checked the call sign server this morning and found that I have been issued "N7VE". I like the shorter call sign, but I am not sure I like the "e" hanging out on the end.....

I have grown kind of fond of "KK7BD". Oh well.... Out with the old, in with the new!

- Dan Tayloe, N7VE (ex KK7BD), Phoenix, Az, QRP1 # 696, Az ScQRPions

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
 From: "Dan Tayloe-P26412" <Dan_Tayloe-P26412@email.mot.com>

Subject: [11944] New Vanity Call and Fox Score
Message-ID: <M29437838.036.k6276.1.970213202524Z.CC-MAIL*/OU=SATCG/OU=AZBH/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Now that I have a new call, how do I get my fox score changed over?

I don't want to start over from scratch now! :-)

By the way, I noticed that the last fox hunt falls on my birthday (March 18th... not UTC). What a way to celebrate turning 40... A fox that night would make a great birthday present!

- Dan Tayloe, N7VE (ex-KK7BD), Phoenix, Az, QRPL # 696, Az ScQRPions

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "David Kreinberg" <kreinbd@ccgate.dl.nec.com>
Subject: [11881] NR3E's FSFD LOG
Message-ID: <9701138558.AA855848117@smtpgw.ccgate.dl.nec.com>

Well, Jack's (W5TFB) post told the story of the weather here in Texas yesterday: very cold, rainy, etc. Nice day to stay warm in the shack.

30m was awful, only worked AA8EB in OH.

20m was productive: 12 Q's, 8 states, 2 prov.

40m was good, much QRM/N: 16 Q's incl. 3 in Novice area. 11 states

80m condx good, just no activity: 3 Q's, 3 states. 1 in Novice area

Had fun. My hat is off to the guys at Embedded Research. My Atomic Keyer was a real help in calling CQ over, and over....

Many thanks to Jim and the group for setting this up.

If you'd like a card, please send a SASE to:

David Kreinberg
750 Willow Oak Drive
Lewisville, TX 75067

73 de Dave NR3E

nr Dallas, TX
qrp-1 #25, ARRL

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: JCoote@aol.com
Subject: [11915] Number Stations- Conjecture
Message-ID: <970213134726_1610832539@emout02.mail.aol.com>

Sending numbers in CW in five-digit groups has been used by military, governments and (I think) marine/commercial/weather HF stations. It's even done on code lessons.

Someone might look up to see which international allocations (aero, marine, embassy, etc) are shared with 10.130. If it is a "none of the above" operation those folks don't 'need no stinkin' badge' and will operate on whatever clear frequency they choose for their intended coverage.

There are also voice numbers stations which have been heard by SWLs, around 6, 9.4 and 11.5 MHz. These have been reported as a male or female synthesized voice reading out groups of five numbers in Spanish. German and Korean have also been heard by SWLs. The mode is AM or AME. This has been going on for years, back to the "cold war era" and has been the subject many SWL articles, no great secret to talk about these stations. The times and frequencies of the numbers broadcasts are unpredictable, but non-ham and ham frequencies alike can be chosen for time/coverage into a certain area (rather than the longest DX path).

Hearing at least some of the numbers stations near popular SWL broadcast bands is cause for further conjecture. Shortwave broadcasting is "normal" in many countries. Where travellers with suitcase HF transceivers (heh heh...moi? I'm just a happy ham operator on vacation!) might arouse suspicious customs officials, a cheap SWL/AM/FM portable receiver would not. But a one-way coded broadcast? Why not... kind of like a pager perhaps.

I don't care to speculate on the nature of the encryption used on these broadcasts or whether they are encrypted at all, but there are books in many libraries on the subject of codes or ciphers...Enigma machines, Purple, rolling key ciphers, book ciphers and "crossword" or Vigenere ciphers where the user draws a grid or crossword from memory and plugs in the key and encrypted message to get the decrypted product. All very interesting stuff.

73, Jay
W6CJ

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Marty Watt" <mdwatt@usit.net>
Subject: [11857] Numbers stations and DFing them
Message-ID: <199702130418.XAA21580@SMTP.USIT.NET>

On Wed, 12 Feb 1997 16:46:16 -0700, "Laura" <sputnik@imt.net> wrote:

>" and I doubt any of us would be keen to repeat the experience
>these folks had."
>
>
>You've got me curious! What happened to those that DFed them? Was it like
>the burmuda triangle or more like Jeffery Dahmer's apartment?

More like trying to sneak into the Pentagon unannounced ...

Short story ...

When I lived in S. Florida (Plantation, just N of Miami) I was an avid "Monitoring Times" reader, and much was made of numbers stations. There is/was (not sure what happened after HRH Andrew -- that's heap rugged hurricane Andrew!) a collection of very unique antennas visible from the Florida Turnpike, near the Metrozoo. Looked deserted, but when I approached the fence to investigate a bit further, all the pole-mounted cameras turned in my direction, and I spotted the "US Government -- no entry" signs all over the place. Somehow, I feel confident that had I foolishly proceeded, I would have been greeted by America's finest, fully armed and prepared to defend the installation ...

I also found, back in the swamp, an AT&T ship to shore site (or so the sign read) with some very, very interesting looking antennas, including several that looked like railroad tracks elevated 25 or so feet, running for a half mile or so.

DFing numbers stations is great fun, as long as the location is calculated from a very, very long distance from the site! Realize also it (most likely) is the American government, or Israeli security/army -- or at least it used to be some 3 or 4 years ago. (FYI, I lived in S. Fla. from 10/91-11/93).

72 es 73 de

Marty, KN4BH

Jackson, Tennessee

ARRL VE

QRP ARCI #7514 -- QRP-L #953 -- AK/QRP #098 -- EM55oq

e-mail: mdwatt@usit.net

<http://www.public.usit.net/mdwatt>

"The Curmudgeon's Corner"

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: "John Shuster" <jshuster@ix.netcom.com>

Subject: [11924] OHR Group Purchase UPDATE

Message-ID: <199702132003.0AA08627@dfw-ix15.ix.netcom.com>

To All:

Our group purchase is growing with each day. We're close to 30 kits purchased at good discounts from list members and their friends. The more the merrier.

The OHR 100 is very popular. It's OHR's top of the line 5 watt single-bander with a number of convenient features. At \$120 it's a steal considering all that we get in comparison to the current market offerings!

If anyone missed the original post or is reconsidering, here it is again:

+++++

To All:

Due to an overwhelming response way beyond the 10 kit minimum, the OHR group buy is on!

Dick wasn't interested in negotiating prices. He just quoted me low prices for all his kits. For example, the OHR 100, usually \$159.95 is only \$120 !! That's 25% off. Great price for a full-featured 5 watt rig.

Here are the prices; You'll find the standard pricing and product info on OHR's web page at: <http://www.ohr.com>

Prices for this group buy are good from today until next Monday, Feb 17th:

OHR 400 - \$272.00

CL2040 - \$187.00

OHR 100 - \$120.00

WM-2 - \$81.00

DD-1 - \$68.00

SCAF - \$60.00

KEYKIT - \$34.00

Regular shipping prices apply.

If you have already emailed me, please send another official order with your final decision and choice of kit(s).

Here's the easy 2 step process:

1. Email your order with your CALLSIGN to me at: jshuster@ix.netcom.com

I will confirm your order back to you and forward the info to OHR.

2. Contact OHR to arrange for payment and shipping address

OHR will ship your kits immediately.

OHR contact info:

OAK HILLS RESEARCH
20879 Madison Ave.
Big Rapids, MI 49307
616/796-0920 voice
616/796-6633 fax
email: qrp@ohr.com
web page: <http://www.ohr.com>

Best to you and your families,

John

++++
John Shuster QRP Solder Head jshuster@ix.netcom.com
At the foot of the Olympics in little Port Orchard, WA
K7MP ARCI 8951 QRP-L 554 ARS 36 NW QRP 346 WWDXC ARRL
++++

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: David.Reid@asm1.nl (David Reid)
Subject: [11876] oops!
Message-ID: <199702130939.KAA05593@wspub002.asm1.nl>

TS-805S = TS850S - in case of confusion..HI
Dave
PA3HBB / G0BZF GQRP# 3677.

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [11949] Pictures of My Antenna Tuner

I've put some JPEG pictures of the devices that perform my antenna tuning function on my Geocities Web Page. Click underneath the PC-200/SL-200 chart to see them. Remember these devices are sized for 700 watts so they would be cheap and miniscule for qrp work. Honest, these devices and a 4:1 balun are all there is to my antenna tuner - super cheap and super efficient.

73, Cecil, W6RCA, 00TC <http://www.geocities.com/CapeCanaveral/8476>

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: [11931] QRP++
Message-ID: <01IFDCQD6MR68WYHGT@tntech.edu>

All,

well since I am trying to sell everything I own to get one :-) was wondering what the current feeling, opinion, review, operating experience, or any other info is about this rig. how new is a serial #1490?

all information will be greatly appreciated.

have a gud'un from rainy, yechy looking, almost sleeting, bad for sinuses, TN

72, 73 and still counting

Jeff, AC4HF

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: highland@cityscape.net
Subject: [11912] Ramsey Kits
Message-ID: <33035981.4C2C@cityscape.net>

Having fought with 2 used HF transmitters, that I still have been unable to get working I've been looking for alternatives, right know Ramseys,

80 or 40 meter transmitters are looking pretty good. Anybody have anything good or bad to say about these kits?

de KA9KQH, Dwayne

--

....quitely making noise.....
mailto:highland@cityscape.net

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: PDouglas12@aol.com
Subject: [11932] RF samplers
Message-ID: <970213154552_-1943186424@emout20.mail.aol.com>

Hi Gang,

I was wondering what the pundits do to look at transmitter output with their scopes. Obviously, one doesn't put the output of even a 5W rig directly into the scope input, let alone trying that with a 100watt rig. Right? (If this question only confirms how ignorant I am, well, ok call me ignorant....then tell me the answer!)

According to the handbook, one can use a "line sampler" (can these be homebrewed?) or an attenuator (I know these can be made.) Can someone point me to an article on line samplers?

I am building a kind of sampler/attenuator from the Scope/Mixer article in January 73 Mag (nice way to use an older scope to see RF, by the way). But I suspect the circuit given is not suitable for permanent use inline as it is probably lossy.

Now, for those who say the 38S is bad for business--my 38S has so far inspired me to go out and buy a reconditioned 100 MHZ scope for more than \$500; assembled (mail order) the parts for the above Scope/Mixer device for use with my old narrow bandwidth scope as a station monitor; bought the power supply parts and case needed to finish my Steve Weber spectrum analyzer adapter which has been hanging out in the shack for six months; and bought a 100 drawer storage system to organize my resistor and capacitor junkbox into useable form and clean up the shack. All for a \$25 dollar rig. OK I always wanted a good scope; always meant to go out and buy a storage system for parts; been meaning to get the extra parts/case for the spectrum analyzer so I could get it started. But I wouldn't be in this latest building frenzy without the 38S, and several merchants have a lot of business from me that might not have been conducted or would probably have waited more years.

So, any good ideas out there for a good line sampler? Oh, someone did

mention that these things can be purchased, and they can be expensive. Well, after the scope, more expensive stuff is not an option.

So, would some kind soul kindly teach me about safely connecting my scope to see the output of a transmitter? Or point me to a good article on the subject?

72,

Preston WJ2V

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Bradley S. Mitchell" <bmitchel@kodak.com>
Subject: [11923] Thumper 8 volts, 4066's and ne602's
Message-ID: <33044288.1E97@kodak.com>

Well, I have a few pages on cmos switches that I pulled from an engineering book more than 2 years ago.

According to this, the 4066 handles voltages to +- 7.5 V.

I have to look at the orange 4000 series cmos book, and see, as well as the schematic, but if we're trying to put 8V d.c. into the switch and it's rated for +- 7.5 as this book says, then maybe there is a source of "something" ..

Also, someone noted that the Ne602 is rated for 8V, and I noticed that in the back of the manual for the 38S it says 9, but way back when I looked into the nn1G MK-II problem that I had that sounded like precip static, I found that the ne602 was hitting some sort of break down, and if I sorted the 78108's I had and found one that ran slightly under 8, the rig's static problem went away.. so the moral of that story was to use a 6 volt regulator or 5 for the the ne602's. I think I used 6 volt regulators.

Anyway, the Signetics spec says 8V, unless there are different voltage versions of the ne602?

73 Brad WB8YGG

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: Ron Giuntini <rong@slip.net>
Subject: [11917] TiCK Instructions
Message-ID: <E0vv6LP-0005zZ-00@ferret>

Hi folks.

I have a question or two concerning the instructions for the TiCK mod to the 38S. In the manual when R15 and R16 are removed are they just removed and left out of the circuit as I suspect or are jumpers placed in their place as I doubt?...Also, the instructions say to install R127 R128 C133 and C144. Which are these? Also, TR3 I presume is what is referred to as TR 201 in the additional parts listing. VR2 is obviously VR201, the 78L05. I think there was a mention of these discrepancies but I can't locate that posting...Can someone clear this up for me? I need to know what labels the board has for these parts. I could go ahead and guess, but I would like to hear from someone who knows for sure, and I am sure it is a minor correction to otherwise excellent instructions...Ori??

Ron, KB6GK

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "KA5T Larry Wise" <lewise@inetport.com>
Subject: [11870] Toroid Data Needed
Message-ID: <199702130815.CAA25951@admin.inetport.com>

Can someone give me the following info or point me to an online place, or ham radio mag reference for it:
(I know...I know....But the Data Book's in the mail...)

My '86 and '92 ARRL Handbooks seem to omit these data points...

Tried the Amidon web page but they don't seem to have this online...

Dimensions of a T-30 core - ie - OD, ID, and Thickness
(Is it possible that these are misprints and they are really T-80 cores??
Does anyone know if T-30 cores really exist??)

Color marking for powdered iron number 7 mix - ie - T50-7
(The Hank Olson article in HR Apr 71 shows a Micro-Metals mix of 7, coded white, but
does not indicate that Amidon marketed cores of this mix. Misprint??)

Color markings for ferrite 61 mix - ie - FT37-61
Color markings for ferrite 43 mix - ie - FT23-43
(I see no reference to how the ferrite cores are marked for identification.)

FWIW: References to these toroids came from the K1BQT articles:

The QRP-15 CW Tranciever - CQ magazine Sep '90

An NE602-Based QRP Tranciever for 20-Meter CW - Ham Radio magazine Jan '89

A compact 20-Meter CW tranciever - Ham Radio magazine Jun '87

Just getting ready.....

Yeah, I ordered the Amidon catalog.....

Any info appreciated

Thanks, Larry

KA5T - Larry Wise - Georgetown, Texas - lewise@inetport.com QRP-L 89
ex: KN8OSG K8OSG(1959-1967 MI) W6HED(1967-1968 Ca) W4ZTB(1968-1978 Fl)

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Bob Kellogg <ae4ic@nr.infi.net>
Subject: [11934] Tuner Test III
Message-ID: <199702132101.QAA06968@mh004.infi.net>

Gang,

I've completed tests on the Murch UT 2000A, and the data is added to the list for comparison purposes. After the data, there is a short description of each tuner tested, in case some of you are not familiar with the model nos.

It is important to remember that the information below is a summary, and cannot indicate performance on any individual SWR/Frequency combination. Some perform better on certain frequencies than others. These results are based on testing one or two tuners which may or may not be representative of all of the tuners of the same model. (particularly true of kits which may have variations in wire routing)

The tuners were tested for five conditions:

RANGE - The number of SWR/Frequency combinations, within the advertized frequency range of the tuner, that could actually be tuned to 1.1:1 SWR or better.

Results:

MFJ-949E 137/162 (137 out of 162 possible)

ZM-1 140/144

St. Louis 138/144

Murch 2000A 71/72

EFFICIENCY - The number of SWR/Frequency combinations, within the advertized frequency range of the tuner, which resulted in less than 20% (approx. 1 db) power loss.

Results:

MFJ-949E	49/162
ZM-1	60/144
St. Louis	1/144 (not an error)
Murch 2000A	35/72

AVERAGE LOSS PERCENTAGE - The average signal loss of all of the SWR/Frequency combinations which would match to 1.1:1 or better.

Results:

MFJ-949E	29%
ZM-1	22%
St. Louis	43%
Murch 2000A	22%

SWR BANDWIDTH - The number of SWR/Frequency combinations, within the advertized frequency range of the tuner, which enabled a tuning range greater than 5% of the primary frequency. (5% on 7.2MHz is 360Kc) (Once the tuner is set, how far can we tune from the frequency before SWR climbs to 1.5?)

Results:

MFJ-949E	73/162
ZM-1	61/144
St. Louis	77/144
Murch 2000A	22/72

BALANCE - The number of SWR/Frequency combinations, within the advertized frequency range of the tuner, indicating a balanced output with less than 1.5:1 difference between the lines.

Results:

MFJ-949E	52/81
ZM-1	72/72
St. Louis	72/72
Murch 2000A	N/A (Murch is an unbalanced only tuner)

TUNER DESCRIPTIONS:

MFJ-949E: A C-L-C "T" design. Uses a tapped air inductor. Rated at 300 watts. Balun provides balanced output. Tunes 160M through 10M. Case about 3-1/2" X 10-1/2" X 7-1/4"

ZM-1: A "Z-match" design. Uses a ferrite core inductor. Rated at 15 watts maximum. Link coupled for balanced output. Tunes 80M through 10M. Case about 2-1/2" X 5" X 1-1/2".

St. Louis: A C-L-C design. Uses a tapped ferrite core inductor. Rating

unknown, probably 25 watts or more. Balun provides balanced output. Tunes 80M through 10M. Case about 2-3/4" X 6-1/4" X 5".

Murch UT 2000A: An "Ultimate Transmatch" design popular in the 1980's and found in the 80's Handbooks. (This one did not have the "SPC" mod) Rating 2000 watts. Unbalanced output only. Tunes 80M through 10M. Case about 5-1/2" X 12" X 12".

Have received an LDG QRP automatic tuner, and it will be tested next.

CUL,

Bob Kellogg, AE4IC, Greensboro, NC
Probably, but not nececelery. - Benny Hill

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "T. PETTIBONE" <tpettibo@NMSU.Edu>
Subject: [11852] Two foxes!
Message-ID: <Pine.A41.3.95q.970212203807.24638A-100000@hector.NMSU.Edu>

My, my - I got to work them both! Got Larry at 0157z on 7043khz. Then heard others work Brad (KB0ROL) but couldn't hear him. He finally came out of the noise around 0330. Worked him at 0338 on 7111.9 khz. Got my belated Xmas present today - the QRP+ companion. The YF ordered in on December 13th with "guaranteed" delivery by XMAS. Yeah, right! Looks pretty good. Need to try it out. Will post something to the list unless I get a lot of hate mail (or someone else posts). Cheers.

Tim AB50U
Las Cruces, NM

p.s. Brad is still calling cq on 7111.9.

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "KA5T Larry Wise" <lewise@inetport.com>
Subject: [11961] UTAH 10118 AB7ST
Message-ID: <199702132346.RAA22415@admin.inetport.com>

Good sigs into TX

KA5T - Larry Wise - Georgetown, Texas - lewise@inetport.com QRP-L 89
ex: KN80SG K80SG(1959-1967 MI) W6HED(1967-1968 Ca) W4ZTB(1968-1978 FL)

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: ken Cavcey <cavcey@boulder.nist.gov>
Subject: [11913] VXO Crystal Circuits
Message-ID: <199702131837.LAA29489@central.bldrdoc.gov>

Hello Gang:

I have found that I can bend, rubber or stretch the frequency of a crystal down by 0.6% (16.161 - 16.061 MHz) and retain frequency stability. Actually I have been able to reach as low as 16.000 MHz but, the VXO becomes a VFO which is not the objective.

I have found that the critical parameter is the crystal's series resistance R_s . I have a few 5th overtone 16 and 17 MHz crystals meant for operation in the 150 - 160 MHz region by using them in a Butler type of oscillator circuit only later to be run through a doubler to get to the final frequency. Measurement of R_s in a tester [1] of the 16.161 MHz crystal I have showed a resistance of 5.10 ohms. Later measurement of a fundamental crystal meant for operation at 17.39 MHz measured 18.8 ohms.

In discussions with three major crystal manufacturers resulted in the following information:

{1} The quartz AT blank must be of reasonable size (not the mini holders - HC-6 is OK) and both surfaces must be highly polished.

(2) The spot size for the contacts must be made larger so that the crystal may operate at the other modes (3f, 5f & 7f etc.).

The larger spot size of course increases the electrical surface contact to the quartz blank resulting in a lower R_s and a high Q for the crystal. The larger spot will also increase the C_o (pin to pin capacitance) by 1 to 2 pF.

The higher Q allows a greater swing in the frequency of the VXO. I would think that if matched (within 25 Hz) Cohn crystal filter characteristics would also improve.

The question is; "Has anyone out there done any related work in this area?"

Kenneth H. Cavcey W0YOR
Electromagnetic Fields Division
NIST 813.07

Boulder, CO.
(303)-497-3995

[1] DeMaw, Doug W1FB, "A Tester for Crystal F, Q and R," January 1990 QST, page 21.

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Larry East <w1hue@amsat.org>
Subject: [11937] Wed. Fox Report
Message-ID: <2.2.16.19970213212028.2ca7484e@eloi>

Things got off to a roaring start with about one QSO per minute! But, as usual, things almost came to a screeching halt shortly after 0300. I don't think that the band was really all that dead because the few stations I worked after that had pretty good signals (except the last one worked -- see report below). Maybe I had just worked everyone that wanted to work me by that time. I got started about 15 minutes late due to a phone call. I intended to extend the time by 15 minutes, but when I got no response between 0330 and 0335 I decided to call it quits for the evening.

I'm sure there are some errors in the following report, but at least this time I have an excuse: I was "doped up" on pain killers because I slipped on some ice Wednesday morning and hurt my back. At least "playing fox" took my mind off the pain! The problem was not in copying -- I couldn't read some of my writing when I transcribed the log to the computer! There is one name that I just can't make out, and there are a couple of calls that I'm not too sure about. So, any and all corrections cheerfully accepted! :-)

Chuck: I'll send you a report without the commentary after the error corrections.

W1HUE QRP-L Fox Report -- Feb. 13 1997 (UTC)
(Wednesday evening, Feb 12 in North America)

Time	Call	Sent	Received
0147	WA6TLA	569	559 CA Elliott 3W
0148	W5FN	579	579 TX Tim 586
0149	W6SU	559	559 CA John 48
0150	K6VNX	569	559 CA Arlen 5W
0151	N6XU	599	599 CA Stan 66
0153	VE7SL	579	589 BC Steve 769
0154	K1MG	579	579 CA Mike 614
0155	KK5RO	579	559 OK Vernon 325
0156	AA0XI	579	559 CO Marshall 153

0157	AB50U	559	559	MN	Tim	73	
0158	N6WG	569	559	CA	Bob	27	
0159	KE4YH	559	539	FL	Stew	590	
0200	N5LU	559	559	OK	Bill	5W	
0202	K6NAE	429	449	CA	Dwight	1R4	
0204	KJ5SP	579	539	OK	Di???	5W	
0206	AB7TT	559	339	AZ	Joe	191	
0208	W7GVN	549	559	AZ	Rod	849	
0210	N50KY	439	559	OK	Mike	300	
0212	AA0XI	549	559	CO	Marshall	153	<-- Dupe!!
0213	K06KA	579	579	CA	Rob	176	
0215	KI60Y	559	559	CA	Lee	837	? (Too many "dits".)
0218	K50N	559	559	NM	Gary	770	
0219	W6SIY	539	449	CA	Keith	675	
0222	VE3JC	429	439	ON	John	744	
0224	KA5T	439	449	TX	Larry	89	
0226	K2VCO	579	589	CA	Vic	725	
0228	N2VPK	549	559	NY	Mark	314	
0229	W5XE	559	569	TX	Ray	256	
0230	N3KFL	439	559	PA	Al	36	
0232	NQ7X	439	449	AZ	Floyd	343	
0235	K1CL	229	229	MA	Chuck	217	
0238	KU7Y	539	339	NV	Ron	17	
0243	W6BAB	559	579	CA	Harvey	5W	
0244	N1QQV	439	449	CT	Ken	410	
0247	K6JI	559	559	CA	Dennis	303	
0249	KD6YIX	579	449	CA	Mike	533	
0250	KK7BD	559	449	AZ	Dan	5W	
0251	AB7ST	579	589	UT	Bob	128	
0253	KK6MC	439	559	NM	Jim	411	
0255	K5JHP	559	449	TX	Bill	825	
0257	KJ5VW	439C	239	TX	Gary	227	Nice chirp!
0300	KI0G	559	569	CO	Bob	239	
0302	W7JDZ	599	559	ID	Mac	752	
0304	AB5UA	329	329	OK	Clif	478	
0318	N7KT	589	449	AZ	Roger	62	Well, 589 at first!
0321	AK1P	539	559	CA	Paul	284	
0322	K7TP	579	599	CA	Grover	669	
0329	AE4JM	119	339	GA?	Al?	5W	ESP filter FULL ON!

Total QSO's (less dupe): 47

High scoring states:

CA:	16
AZ:	5
OK:	5
TX:	4
NM:	3

72, Larry W1HUE/7

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [11906] Whoops on for sale (2m HT, Nye LPF)
Message-ID: <Pine.3.89.9702131234.G7664-01000000@w3eax.umd.edu>

Forgot to post - have a Nye Lowpass filter, cylindrical in shape, \$20 plus shipping in good but not pretty shape,

and a Yaesu FT-23R 2m HT with large battery and manual (charger is underpowered but present).

FTT-4 keypad is included (a \$50+ option!).

It's extraordinarily tough (metal housing) and is still a current model.

Asking \$135 shipped.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: JCoote@aol.com
Subject: [11902] Re: 100-0-100 uA meters:usage?
Message-ID: <970213114757_-1173767788@emout01.mail.aol.com>

In a message dated 97-02-11 23:38:55 EST, jm165723@eee.org (john andrews) writes:

>Hi Gang:

>

>Pawing thru the junk box and pulling parts for my next shack

>Mega-Parts super sale and found a new 100-0-100uA meter.

>

>Anyone used this as a null indicator in a dip-meter? Seems the reason

>most dip-meters don't use it is due to the cost(?)... Anyone ever try

>it?

>

>Thanks, John-N5INZ

John & Group

I've used zero-center microammeters to add a larger display to a left-right type VHF direction finder called the "L-Per". The L-per was pretty hot on sensitivity and locating foxes concealed in packages or vehicles, but lacked a large meter for mobiling. Hating to look away from the road, My lighted 3" meter was mounted near the rear view mirror.

I've used a 2-diode voltage doubler, 50 K pot and standard 50 uA meter to make a cheapie field strength meter which at "full scale" could detect 25 to 100 mW VHF signals at 1 foot. This was not a zero-center meter.

Some FM'ers have added zero-center meters to the discriminators in their receivers to tell how far another signal was off frequency. Also useful for getting "signatures" of lid and jammer signals for future comparison.

73, Jay

W6CJ

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: "Michael A. Gipe" <mgipe@reliablemeters.com>

Subject: [11904] Re: 100-0-100 uA meters:usage?

Message-ID: <199702131710.LAA16052@multi13.netcomi.com>

Probably not very good for a dip-meter (which only goes to 0), but very good, with the proper shunt, for a battery current monitor, showing charging current and drain current.

Mike K1MG

> >Pawing thru the junque box and pulling parts for my next shack

> >Mega-Parts super sale and found a new 100-0-100uA meter.

> >

> >Anyone used this as a null indicator in a dip-meter? Seems the reason

> >most dip-meters don't use it is due to the cost(?)... Anyone ever try

> >it?

> >

> >Thanks, John-N5INZ

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Norbert.Heyder@ri.dasa.de
Subject: [11867] Re: 38S thumping Continued
Message-ID: <9702130642.AA07663@mail-s.ri.dasa.de>

The 4066 itself can't be the reason - e.g. Index QRP+ uses it for the same purpose and it works fine.
But avoid to switch unwanted DC-Offsets(decouple the DC with a capacity in line) on top of the audio signal- my QRP+ had such a problem resulting in "clicks" when keying!

72 de Bert DL8BDF

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: James Parsons <k5rov1@worldnet.att.net>
Subject: [11858] Re: address for Embedded Research:
Message-ID: <1.5.4.32.19970213040648.0067737c@204.127.3.1>

At 03:39 AM 2/13/97 +0000, you wrote:

>Hey guys: Can anybody help with a phone number, or email address for
>Embedded Research in Rochester NY? I have a buddy who is too eager to get
>an audio filter on the way for an Argosy II to wait for two way snail mail.
> I got plenty of help on the previous request for the filter, went out to
>the web page of Embedded Research, found the price, etc. but no way to
>order except snail mail.

>

>

Dub...

E-MAIL: gmdsr@vivanet.com

ADDRESS: Embedded Research
PO Box 92492
Rochester, NY 14692

I just built their little TiCK-1 keyer kit and put it in one of my HW-8's.
It works great. And, they are great folks to deal with and very receptive to questions, etc. I can't find a phone number on their literature.

73...

Jim, K5ROV

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Jim W7LS <w7ls@brigadoon.com>
Subject: [11871] Re: agreements
Message-ID: <199702130837.AAA10862@olympic.brigadoon.com>

Hi, Dave. Your reasoning sounds good. I am not a RTTY guy and assumed that 7040 would not be a good place for that. I rarely hear it there, but what the heck. With all the activity on 7040, doesn't that hose up the RTTY? I'd think you would want some essentially vacant freqs. Have fun on 7040.

73 de Jim, W7LS

At 12:03 AM 2/12/97 -0600, you wrote:

>Jim W7LS wrote:

>>

>> Hi, Ed. I agree that frequency policemen hack me off, too. Since you have
>> done RTTY for years, you obviously know where the RTTY action is. You must
>> know that 7040 is not a usual freq for RTTY. Why do you want to do RTTY in
>> such an unusual place?

>

>Jim, no offense but in most of the world, RTTY operations take place
>between 7030 and 7040. For example, throughout Europe, RTTY is not
>allowed and would be fruitless up where we operate here in the states
>because European phone band is between 7050 and 7100. Rest of 40 meters
>is pretty much worthless to them due to International broadcasting which
>"shares" the band.

>

>During RTTY contests, many of the 40 meter contacts between the US and
>Europe and Africa occur around 7040. It cant be too "unusual" a
>frequency. K3MM was the station on 7040 Sunday afternoon and he is
>apparently the winner of last weekends contest, with more than 1200
>qsos. If he was so far from normal rtty frequencies he would not have
>made more than 500 of these on forty meters.

>

>73 de Dave, N0IT

>

>

>

>

>

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Kirby, John" <John_Kirby@ATK.COM>

Subject: [11878] RE: ARRL dues

Message-ID: <c=US%a=_%p=ATK%1=ATK/MPLS/0000C78C@exchange_mn2.atk.com>

R E N E W

72/3 John
N3AAZ

>-----
>From: ed.welch@cheaha.com[SMTP:ed.welch@cheaha.com]
>Sent: Wednesday, February 12, 1997 6:44 PM
>To: Low Power Amateur Radio Discussion
>Subject: ARRL dues
>
>

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [11866] Re: ARRL dues due for me, and FOX report.....
Message-ID: <Pine.SUN.3.90.970212223119.8735E-100000@vortex.sage.dri.edu>

Hi Ed,

My advice is to not send them your money. Until they feel the pinch in their pocket book, they will continue to push for the decline of Amateur Radio.

FOX report.....

Not a peep from Larry for a long time. Dito Brad. Ate dinner. Finally heard Larry down in the noise. But he came up a little and I worked him. Went up to 7112, Brad was there with a nice sig and worked him!

Later, with about 15 mins to go, Larry was up to 579! All that with 1 watt!

Good show guys!

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Roger Hightower <n7kt@dancris.com>
Subject: [11848] Re: ARRL dues due for me,....what to do...
Message-ID: <33028BC8.5680@dancris.com>

I'm not pushing ARRL membership, but realistically, the League is the _only_ ham group the FCC listens to. The League at least tries to survey it's members as to potential changes, such as the CW requirement and the idea of a new license class structure. If you're a member, you can have some input. If you're not, you just have to take it as it comes.

Worth the dues to me to be able to speak my piece. Besides, the bookstore cost of the mag is too high, :-)

--

72/73 de Roger N7KT Mesa, AZ Grid DM43cj
NorCal 40-9er, NC38S, NC-40A, Cascade, OHR Explorer 20, 30M, OHR400,
HW-9
NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: SEAB&SHARON LYON <SSLYON@worldnet.att.net>
Subject: [11854] Re: ARRL dues due for me,....what to do...
Message-ID: <19970213035330.AAB16124@LOCALNAME>

At 12:44 AM 2/13/97 +0000, you wrote:

>My membership dues are due again for ARRL membership. I've heard some
>conflicting reports of the "worthiness" of ARRL and I'm trying to decide

In a word, RENEW. It's a good outfit, but only as good as the active participants.

73, =s=

"Seab" Lyon - AA1MY
Bethel, CT; FN-31-HJ
ARCI#9253; QRP-L #574
NEQRP#511; ARRL; QCWA

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>
Subject: [11886] Re: ARRL dues due for me,....what to do...

Message-ID: <37763.owen@piper.eeel.nist.gov>

In message Wed, 12 Feb 1997 20:34:32 -0700,
Roger Hightower <n7kt@dancris.com> writes:

> I'm not pushing ARRL membership, but realistically, the League is the
> _only_ ham group the FCC listens to. If you're a member, you
> can have some input. If you're not, you just have to take it as it
> comes.
>

And the best deal is LIFE MEMBER. Yes you will have to shell out a little
more all at once but the payback is usually less than 10 years or so. I
haven't had to pay a cent for the last 25 years--best deal I ever made. 72
Jim K4CGY qrp-1 #72

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [11954] Re: CA vs TX
Message-ID: <199702132239.QAA31888@multi13.netcomi.com>

If I didn't know better, (ha!), I'd say you planned it that way, Chuck.
Nearly all of the remaining foxes are a slam-dunk-single-hop into Texas,
but we Californians have to gamble on some mighty good propagation to pull
them out.

OK, California, we gotta get moving on this. When the battle gets tough,
hit 'em with all the soldiers you got. We'll get 'em with sheer numbers.
Doug, is it time to call in the reserves?

Mike K1MG

> OK guys, you now gone and done it:
>
> Look at the schedule remaining
>
> ...
> Do you see the big picture? Ah-ha. I knew you
> would. Looks like some hidden agenda to me.
>
> How many FOXii do you see west of the Central
> Time Zone?
>
> :-) ;-)
>
> dit dit
>

> What, did I hear someone say double or nothing?
> SIG
> Chuck Adams K5FO adams@sgi.com DXCC=8
> http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [11869] Re: Calling all kit builders!
Message-ID: <199702130747.AAA06299@zia.aoc.nrao.edu>

Dear QRP Dave,
You bring up a very interesting point about QRPing and kit building, in that we seldom consider those who might be impaired one way or the other. Last year, several of us from QRP-L were on WWCR on the "Ham Radio and More" show talking about QRP. Of the few calls we took, I remember TWO were from blind hams who were curious about the simplicity of QRP rigs. Something few of us have considered is how absolutely difficult today's commercial rigs are to operate by the blind. This was the point these two callers were making is to imagine trying to operate a modern rig with all those push buttons, menus and digital displays if you were visually impaired.

I don't know the answer, except to keep stirring the pot. The simplicity of QRP rigs becomes very convenient for those who are impaired. Perhaps the first thing is for you to find out how many on this list have some level of disability that would prevent them from building a kit. Then perhaps we can find some others who would be willing to build an extra kit for you, or once the kit starts to collect dust, donate or sell it to you or the others with such difficulties. And when you see somebody on QRP-L selling a kit they have built you are interested in, contact them and inform them of your special interest. And finally, do you belong to a local ham club? You might find some surprising support at the local level as well. There are experienced builders who just might be interested in building such a relatively simple kit for you. Hopefully they WON'T catch the QRP bug and return it to you promptly after building it!

GL, Paul NA5N

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: David.Reid@asm1.nl (David Reid)
Subject: [11875] Re: Calling all kit builders!
Message-ID: <199702130825.JAA05501@wspub002.asm1.nl>

Some rigs have extra built in features - my TS850 sends the buttons you press in CW on the speaker - I'm not blind - but usually operating in the dark HI.

I find it a great help in knowing which button I pressed, especially if I'm sitting in the car at night trying to work a bit of DX....

To get the TS-805S into this mode... press and hold the VOICE button and then switch the power switch on.
Now all your buttons send their own CW ID.

This is not documented in the manual... but seems to work for most of the buttons.... including the keypad...

So if I press the mode switch it sends 'C' for CW, 'U' for USB... you get the idea...

Nice feature... pity they don't tell everyone about it.

73/72 de Dave PA3HBB / G0BZF GQRP 3677.

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: JEVERHART@cayman.vf.mmc.com
Subject: [11916] Re: Calling all kit builders!
Message-ID: <970213134736.2020591e@cayman.vf.mmc.com>

Dave, you wrote, in part:

>Dear Sirs; (My mom always taught me to call people I respect "sir.")
> I ahve the geerm of what just might be a good idea. I am slowly
>losing my eyesight, and I am unable to build kits that have the solder pads
>too close together. On my latest kit, however, the manufacturer (I don't
>have permission to use his name--may in the future) is WONDERFULLY
>assembling the little puppy for a very modest fee. I am wondering if there
>is a cadre of hams out there who might be willing to assemble kits for hams
>who physically are unable to do it for themselves. This would probably be
>in three classes: free, for a small fee, and for a modest fee. I would
>like to list manufacturers who might be willing to assemble their kits for
>an added fee as well. Of course, this is within the time that the
>manufacturer might have to devote to what will most likely NOT be a financial
>profit to them.

Your comments strike a resonant chord. I have a friend, WA3CA0, a fellow

subscriber to this list, who is both blind and a homebrewer! In fact he has a homebrew article coming up in the March issue of QST. Be sure to check it out. Now my friend doesn't do pc boards, per se, but he *does* use wirewrap and he breadboards by using a modified wirewrap/soldering technique on Vector board. So homebuilding is possible by folks with a wide variety of skills and abilities. I've been encouraging him to write up some of his homebrew techniques to share them with hamdom.

In addition to the partnering for kit building, let me suggest another service that folks can provide for those who can't read schematic diagrams. Now, magazines like QST are available on audio tape and those tape versions do include "verbal schematics", but many publications don't provide that service. So if you really want to be a buddy, convert those graphical schematic diagrams to verbal ones. I've done several for my friend and he probably knows them better now than I do!

I think this is an excellent way of sharing knowledge and is a continuation of the generosity that other hams have shown me over the years.

If anyone wants a copy of a verbal schematic to check out the format, send me an e-mail requesting it. I put the Charles Kitchin regenerative receiver (similar to the Paul Harden receiver in QRPP) to words and you can easily understand how to do it yourself from this example

72/73,

Joe E., N2CX

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: w77kxb@juno.com (William Harris)
Subject: [11836] Re: Can you hear me?
Message-ID: <19970212.173630.4855.2.w77kxb@juno.com>

Brent:

IMO, the Hamstick should work, somewhat. They don't make the best mobile antenna as compared to a Bug Catcher, or DK3, in fact I believe even the Hustler outperforms the Hamstick, slightly. I would think that the wire antenna would be your best approach to the problem.

Gud Luck & 72's
Bill..W7KXB
Mesa, Az.

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: Martin Squicciarini <skitch@resuba.com>
Subject: [11879] Re: cmos Super Keyer II & voltage
Message-ID: <Pine.LNX.3.91.970213073910.8523B-100000@resuba.com>

Kris,
I just built my CMOS II about a month ago and it also went through alot of batteries at first. The kit I build did not use 2n2222 but some other transistor. I replaced both of the supplied transistors with 2n2222 and the side tone increased the rig keyed properly and I've had the same batteries in ther since (about month or two). Your mileage will vary.

72/73
Marty Squicciarini NR3Z
skitch@resuba.com (home)
msquicci@vf.lmms.lmco.com (work)

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: James Parsons <k5rov1@worldnet.att.net>
Subject: [11885] Re: cmos Super Keyer II & voltage
Message-ID: <1.5.4.32.19970213141153.0067b874@204.127.3.1>

At 07:33 PM 1/26/97 +0000, you wrote:
>I've consumed a lot of batteries (9 volt with the regulator). On
>the DX-pedition to Morgan Cay last two weeks I went through 2 9 volt
>jobbies in the 10 days of 2 graylines each plus some day time op.
>And I took the batteries out most of the time. I assume that the
>regulator continues to draw when the keyer is not in use. I did not
>use the sidetone either. I disconnected the battery so many times
>that the battery clip broke !
>
>At home I've rigged a tap on the main 12 volt supply to the qrp rig
>with a reversed battery clip into the battery clip hooked to the
>keyer - no battery problems! No memory between uses either :>(
>
>I think that the best solution to all of this is to forget the
>batteries and wire the keyer to the 12 volt source of the rig and use
>the regulator. Turn off the whole kit and kabuddle between uses and
>grind your teeth as you reprogram each time.
>
>Good luck,
>
>73,
>
>Kris

>OA4DB0

>

>

>

I have both the CMOS II and the CMOS III. I run them both off of batteries, and I have yet to change a battery. They are connected to the batteries constantly. I don't use a regulator. The batteries connect directly to the keyers. I use a little radio shack four cell AA battery holder. I use a dummy battery (a short) in one of the battery positions. That puts 4.5 volts on the keyers. My friends who have done the same say that the cells last the shelf life of the batteries, and I sure believe it. Changing the batteries every couple of years is hardly a chore, and beats reprogramming!

73 de Jim, K5ROV

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: "j.w. thornton" <dub@oklahoma.net>

Subject: [11907] Re: cmos Super Keyer II & voltage

Message-ID: <3.0.32.19970213113911.00b19b20@okc.oklahoma.net>

At 07:46 AM 2/13/97 -0500, you wrote:

>Kris,

>I just built my CMOS II about a month ago and it also went through alot
>of batteries at first. The kit I build did not use 2n2222 but some other
>transistor. I replaced both of the supplied transistors with 2n2222 and
>the side tone increased the rig keyed properly and I've had the same
>batteries in ther since (about month or two). Your mileage will vary.

I have two of the CMOS II keyers, used 3 AA batteries and get virtually the shelf life of the batteries before replacing, well over a year. No regulator used.

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: David.Reid@asml.nl (David Reid)

Subject: [11925] Re: cmos Super Keyer II & voltage

Message-ID: <199702131257.NAA05723@wspub002.asml.nl>

Kris wrote:

>with a reversed battery clip into the battery clip hooked to the
>keyer - no battery problems! No memory between uses either :>(

Aughh... I've made mistakes - using this arrangement... Recommend you avoid it - this 'reversed battery clip' - means the black wire goes to

the positive supply and the red to GND... a sure recipe for disaster...

(or fit a fuse and diode to the cable - don't you always???)

Dave

PA3HBB / G0BZF /GQRP# 3677

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: "D.K. Philbin" <dphilbin@slonet.org>

Subject: Re: Color Burst Rigs

At 06:48 PM 2/11/97 -0700, you wrote:

>

>While you folks are toughing it out on the color burst frequency, think
>about that other homebrewer's special: the 3.686 MHz CPU crystal. Up here,
>at least, 3.686 MHz makes a lot more sense. Less QRM, closer to the phone
>band for those with no tuners, higher probability of QSO. Virtually every
>electronics distributor stocks them, usually at the same price as a color
>burst crystal. Or, if you are fortunate, dumpster diving at work yields
>scads of them....

>73

>John

>

>John,

Where can I find a circuit diagram for this type of rig?

Thanks

D.K. Philbin, KD6TK

>

>

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: "John Kirk, VE6XT" <jakirk@freenet.calgary.ab.ca>

Subject: [11833] Re: Color Burst Rigs (fwd)

Message-ID: <Pine.A32.3.93.970212170308.51134A-100000@srv1.freenet.calgary.ab.ca>

Can anyone help him out? My observation was general, not limited
to the "colorburst special" or whatever it calls itself.

Thx
John

----- Forwarded message -----
From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: [11874] Re: Colorburst Sprint Reminder
Message-ID: <199702130851.IAA21994@chuck.dallas.sgi.com>

Wow Ted,

No wonder I didn't hear anyone on Tuesday night!! :-)
SIG
Chuck Adams K5FO adams@sgi.com DXCC=8
http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Leon Heller <leon@lfheller.demon.co.uk>
Subject: [11928] Re: DATA SHEET: "nF" value Caps
Message-ID: <qKVrHAAj61AzEwhY@lfheller.demon.co.uk>

In message <199702122252.PAA24412@zia.aoc.nrao.edu>, Paul Harden
<pharden@aoc.nrao.edu> writes

>
>I've received several emails inquiring about nF (nano Farads). Nano
>is 1×10^{-9} (.000 000 001 F). It is a unit of measure starting to see
>more use in both amateur and professional publications.
>

They've been used for years in Europe.

Leon

--

Leon Heller, G1HSM
leon@lfheller.demon.co.uk
Tel: +44 (0) 118 947 1424 (home)
+44 (0) 1344 385556 (work)

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: gsurrency@juno.com (Gary L Surrency)
Subject: [11861] Re: First European DX....QRO, but frameable. :)
Message-ID: <19970212.220317.9934.0.gsurrency@juno.com>

Yes Ed, this is what DXing is all about.

You never can tell who is on the other end of a QSO, especially when it is a DX station.

Any of us who have a little DX under our belt will tell you that it is QSOs such as the one you had that really keep us interested in ham radio.

I once worked Thor Heyerdahl on the Kon Tiki expedition on 15m as a novice. I never will forget that one.

Thanks for sharing your excitement with us.

Now, wait until (if?) the sunspots get going, and you can really achieve this with QRP.

Are any of you that still haven't upgraded wondering why the rest of us have bothered to get the higher license classes? See?

72,

Gary Surrency AB7MY
S&S TAC-1(40&80m) and ARK30
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Kirby, John" <John_Kirby@ATK.COM>
Subject: [11895] RE: fix 40 M band plan now!
Message-ID: <c=US%a=_%p=ATK%l=ATK/MPLS/0000C8C8@exchange_mn2.atk.com>

Steve, KD1JV...

You have my vote...

I work all modes...

and yes CW is a digital mode...
and yes QRP is a mind set not a mode...

72/3 John
N3AAZ

>-----
>From: kd1jv@juno.com[SMTP:kd1jv@juno.com]

>Sent: Thursday, February 13, 1997 12:19 PM
>To: Low Power Amateur Radio Discussion
>Subject: fix 40 M band plan now!
>
>

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: jdenison@aisp.net (JOEL DENISON)
Subject: [11896] Re: fix 40 M band plan now!
Message-ID: <19970213160801025.AAA69@slip32.ts-f-merrill.caps.maine.edu>

>7.00 to 7.030 CW only. No license class sub segments. If your brave
>enough to want to use Morse code, do it here! The new QRP freq could be
>7.025
>
>7.031 to 7.050 digital modes, including high speed keyboard morse. Notice
>1 Khz buffer between 7.30 and 7.31.
>
>7.05 and above, SSB splatter and chatter.
>

>de KD1JV, Steve in NH

Hi Steve:

You are a brave soul. I would do it a bit different:
7.0 - 7.025 cw extra
7.025 - 7.075 cw for all
7.075 -7.150 digital
rest ssb

I see no reason to take away any more cw space on 40 mtrs.

I would like to see how someone who does more digital than cw, would slice
up the band.
Joel

God Bless
Joel

WA5CVM	
Joel Denison	Gentle Lady (049 - high start)
81 High street	40 mtr dipole up 40ft
Farmington, Maine 04938	QRP ARCI 4066 NEW ENGLAND QRP 476 QRP-L 765

jdenison@aisp.net

AK/QRP 109

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [11899] Re: fix 40 M band plan now!
Message-ID: <199702131629.KAA13938@multi13.netcomi.com>

Best solution would be a world-wide primary unshared allocation for hams
from 6.9 MHz to 7.4 MHz. Talk it up.

Mike K1MG

> From: Steven Weber <kd1jv@juno.com>
> Here's what I would do,
>
> 7.00 to 7.030

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Bob Patten <n4bp@shadow.net>
Subject: [11909] Re: fix 40 M band plan now!
Message-ID: <Pine.SOL.3.91.970213130010.20737B-100000@hyper>

On Thu, 13 Feb 1997, Michael A. Gipe wrote:

> Best solution would be a world-wide primary unshared allocation for hams
> from 6.9 MHz to 7.4 MHz. Talk it up.
>

Excuse my ignorance, but why is 7040 designated as the QRP calling freq
and why does it seem to be written in stone. I've been operating QRP off
and on for over 40 years and, for as long as I can remember, QRP has
always competed with RTTY for that particular spot. Would it not be a
simple solution to change the QRP calling freq?

Bob Patten, N4BP
Plantation, FL
n4bp@shadow.net

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Roger Hightower <n7kt@dancris.com>

Subject: [11911] Re: fix 40 M band plan now!
Message-ID: <330358AB.4DC4@dancris.com>

CW _is_ Digital. The FCC will only go as far as defining the digital vs phone portions of the band. Subbands are still a matter of "Gentlemen's Agreements", and that puts us back to where we started.

Nice plan you have proposed, but I doubt it will make any difference to those who work where they want to.

--

72/73 de Roger N7KT Mesa, AZ Grid DM43cj
NorCal 40-9er, NC38S, NC-40A, Cascade, OHR Explorer 20, 30M, OHR400,
HW-9
NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "KA5T Larry Wise" <lewise@inetport.com>
Subject: [11919] Re: fix 40 M band plan now!
Message-ID: <199702131944.NAA13102@admin.inetport.com>

I would do it somewhat differently (of course)....

7.000-7.300MHZ AnyHam...Anymode....

Flame proof suit in place... :-)

Larry,

KA5T - Larry Wise - Georgetown, Texas - lewise@inetport.com QRP-L 89
ex: KN80SG K80SG(1959-1967 MI) W6HED(1967-1968 Ca) W4ZTB(1968-1978 Fl)

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Sandy W5TVW <ebjr@worldnet.att.net>
Subject: [11933] Re: fix 40 M band plan now!
Message-ID: <19970213204816.AAA19173@LOCALNAME>

At 06:08 PM 2/13/97 +0000, you wrote:

>CW _is_ Digital. The FCC will only go as far as defining the digital vs
>phone portions of the band. Subbands are still a matter of "Gentlemen's
>Agreements", and that puts us back to where we started.

>

>

This is a "cop out"!!! To equate manual CW telegraphy as "digital" is a gargantuan stretch! They managed to divide the CW portion into sub bands for Novice licensees.....what is so damned difficult about "digital"

(RTTY/Packet/AMTOR/

Pactor/Clover etc.) modes that are VERY easy to distinguish from Manual or even high speed computer generated CW?

They ONLY way we will get the FCC to do anything is to make a lot of noise. Writing to your Representative or Senator about it CAN do some good, as I'm sure the FCC doesn't want any "budget cuts"! We must lobby them to institute changes BEFORE any band plan is finalized, or we can forget it for a while! With a big push to squeeze the CW/digital portion of the band again into less space, this space needs to be defined better than a "Gentlemen's Agreement".

My 2 cents worth.

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive,

Metairie, LA., 70001

ebjr@worldnet.att.net

Looking for: 860 tubes, WL-460 tubes, RK-18,20,28 tubes

Butternut HF2V antenna, G-R test gear.....*

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: kd1jv@juno.com (Steven Weber)

Subject: [11940] RE: fix 40 now

Message-ID: <19970213.164734.8055.2.KD1JV@juno.com>

Well, lots of comments on my idea coming in. As to be expected, some have different ideas on how the band should be split up, but all agree something should be done.

So, anyone know how to make an official proposal?

de KD1JV Steve in NH

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: "T. PETTIBONE" <tpettibo@NMSU.Edu>

Subject: [11849] Re: foxes

Message-ID: <Pine.A41.3.95q.970212203012.24672B-100000@hector.NMSU.Edu>

Ray:

Au contraire! I hear Brad in there right now (0333z). He's supposed to stay on until 0430z I think. My QRP+ dial reads 7112.

Tim AB50U
Las Cruces, NM

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Dean T. Miller" <dtmiller@dsmnet.com>
Subject: [11841] Re: High-Capacity NiCad Batteries
Message-ID: <9702130128.AA16251@dsm7.dsmnet.com>

Hi Mike,

At 03:58 PM 2/12/97 -0600, Mike McShan wrote:

>

>I have used the rechargable alkalines and was not overly impressed. After
>10 charges, their performance rapidly degraded, and after about 20 charges,
>they were usually worthless. I was using them in an Apple Newton that drew
>about 800 mA, and these batteries were definitely poorer in performance
>than ordinary alkalines or nicads - more reboots and system instabilities.
>I think that rechargable alkalines might prove to be a poor choice for a
>high current device like a transmitter.

You're most likely right. I haven't used them in critical applications.
Just flashlights, remotes and a few of the kids portable cassette players.
However,
I do have at least one cell that has been in the charger over 50 times. I've
also had one or two that were bad after 2-3 charges (I sent them back and got
free replacements plus postage plus extra cells).

However, I certainly haven't tested them for 'important' applications such as
transceivers. (I have had worse luck with NiCads over the years, though, than
with the rechargable alkalines.)

Dean -- from Des Moines (KB0ZDF)

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: talljazz@teleport.com (Dan Presley)
Subject: [11842] Re: hole question
Message-ID: <v01530524af280c9337b3@[206.163.125.132]>

One of the most useful devices I own is a screw & drillbit 'template', brand name "Screw-Checkr". This is a plastic rectangle with holes to check screw sizes, and also thread types, i.e., coarse, fine, machine. It also has the drill decimal equivalents for each size screw hole so you don't make too small or big of a hole. It also breaks down the measurements for the right drill sizes if you need to drill & tap a hole for threading. These can be found at tool specialty shops, or contractors' supply houses.

Dan N7CQR

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: KFGlynn@aol.com
Subject: [11887] Re: Homemade Bugcatcher
Message-ID: <970213093246_883024169@emout20.mail.aol.com>

Hi Cecil and Gang,

Just saw the homemade bugcatcher on Cecil's homepage. Very nice work.

Reminds me of a friend's homemade resonator, Mark KA2QFX. His is resonant on 3910 on the nose. He's won contests at hamfests for best homemade antenna.

I will show Mark the picture of Cecil's and maybe I can get him to help him make one for me for 20 and 40M.

72 Kevin N2T0

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "JOHN F. McCLUN" <JFM001@DENTAL3.AB.UMD.EDU>
Subject: [11880] RE: Inadvertent P.S. connections
Message-ID: <48E60570A2@dental3.ab.umd.edu>

Gang -

One of the first things I do to my rigs is put a diode bridge on the power input connector. A bridge of the proper rating (i.e., 2 Amps, 4 Amps, etc.) works to eliminate fears of how the power supply is connected. Just ohm from the (-) leg of the bridge to one of the ~ sides of the bridge. If you get continuity then this is the (-) side to connect to the wire going to the boards. Ohm the (+) side and it MUST go to the other ~ and connects to the wire going to the power on/off switch. Now have no fear - lend your rig to others, use it at field day, move from your car to a friend's car ALL with out regard to which conductor in the jack is + or -. Makes no difference! JMTCW.

John N3REY
Always QRP!

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Joe Gervais <vole@primenet.com>
Subject: [11834] Re: Intruding Numbers Station near 10.130
Message-ID: <199702130016.RAA28186@usr06.primenet.com>

Laura (KJ7UN) wrote:

>
> > " and I doubt any of us would be keen to repeat the experience
> > these folks had."
>
> You've got me curious! What happened to those that DFed them?

Images come to mind of Amway salesman swooping down in black
helicopters and making you swear allegiance to the Aliens Hiding
Behind the Comet...

Either that or... *shudder* Lounge singers have to come from
somewhere...

The horror... the horror...

"Al Green is people!"

(Looks like I picked the wrong week to kick caffeine. Sorry!)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Carol N. Wright" <cnw@HiWAAAY.net>
Subject: [11962] Re: IRF510 deal?
Message-ID: <Pine.OSF.3.94.970213174730.32053B-1000000@fly.HiWAAAY.net>

Hey Larry,

One thing I was going to make sure that you got me in the FOX log?
I might of missed it but I hadn't seen if you have posted all the stations
worked or not. I was just wandering, I should of been pretty close to
your last QS0. Also on the IRF510 sale, I checked out Dan's web page,

but when I get about 2k of info copied the link drops out and it says error receiving message. This is probably on my end, but about as much as I am getting is down to the part about the sale on regulators and I don't get any part numbers ust the regulator sale. I was wandering if I could get Dan's email address and see if maybe I could get a flyer, or fill me in on what else is for sale, as I would like to cetch this sale.
Best 72 DE Matt, AE4JM

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Bob Follett" <bfollett@ditell.com>
Subject: [11889] RE: Looking for FCC URL Post
Message-ID: <199702131500.IAA07387@mars.ditell.com>

Gang:

Sorry for the bandwidth, but my ISP would like the FCC text that was posted here last week.

Could someone either send me the extracted text, or the proper URL? Not to the list please. And not the original "scare msg".

73, Bob

Bob Follett AB7ST, QRP-L # 129, NorCal, ARCI, 10-10, ARS
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 E-mail: bfollett@ditell.com

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Dah-Jyuu Wang <ddw2@Lehigh.EDU>
Subject: [11956] Re: more on L/C Meter
Message-ID: <1.5.4.32.19970213224924.006b3b98@lehigh.edu>

Folks:

I have decided to remove my L/C meter page as I was advised that it was inappropriate. If you are interested in the meter you can look it up in June 1996 issue of Electronics Now.

Schematic (lcmsch.gif) and source/hex code (lcm.zip) files can be found on EN's web site at <ftp://ftp.gernsback.com/pub/EN/>. EN's page is at: <http://www.gernsback.com/>

72's
DJ N2YKP/3, QRP-L #71

Dah-Jyuu Wang, Ph.D.
Department of Chemistry
Lehigh University
Bethlehem, PA 18015-3172
610-758-3463

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: VE3JC John <jbcumming@wwdc.com>
Subject: [11860] Re: more propagation news...FSFD TUESDAY
Message-ID: <330291B9.2EF2@wwdc.com>

Jim Hydzyk wrote:

>
> >The forcast is for the coronal mass ejection to hit the earth February 11
> Huummm, what's 40 dB below 339?
>
> Don't forget to look for K5F0 and VE3JC tonight (TUE) under these conditions.
>

Well no need to ask who pulled the plug on the ionosphere during my guest stint in
FSFD Tuesday
nite! If WAS stands for "Worked All Static", I did great! Thanks to those who
made it (and to
those who didn't, but tried!) Here is my log: (97.02.12, utc)

BAND	UTC				PWR	SENT	REC'D
----	---				---	----	-----
40	00:00	K4NK	LES	SC	4W	559	569
	00:05	W4ED	BOB	GA	5W	569	579
	00:10	K4PTU	PETE	SC	75W	589	559
	00:13	K4WZ	RON	GA	5W	549	559
	00:19	AC5AM	BOB	LA	4W	579	569
	00:25	N00R	CLAUDE	KS	100W	579	559
80	00:40	WA3PTY	AL	PA	1W	569	599
	00:43	AC5AM	BOB	LA	4W	559	559
	00:46	W4ED	BOB	GA	5W	569	449 (2-BAND "WORKED
ALL BOBS"!) delaware !)	00:50	WA1QVM	JOEL	MA	4W	559	579
	00:55	K3QIO	JIM	DEL	3W	569	579 (the OTHER
	00:56	KS4HQ	BOB	NC	5W	579	599
	03:14	NJ1M	DICK	MASS	60W	539	559

	03:24	N1UIY	AL	MA	5W	559	579
160	03:36	K4WZ	RON	GA	5W	549	449

Will gladly send qsl to anyone who wants one, and will try to get on next tuesday (after my Cub Scout duties) for fsfd canada day.

Thanks for the fun! 72/73, John

 VE3JC - JOHN CUMMING
 192 WELLINGTON ST., R.R.#1, DELAWARE, ON CANADA, N0L 1E0

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
 From: "Jim Kortge, K8IQY" <jokortge@mci2000.com>
 Subject: [11837] Re: NC38S TiCK/Sidetone question
 Message-ID: <1.5.4.16.19970213005550.204fae74@mail49.mci2000.com>

At 07:55 PM 2/11/97 -0600, Tony Drumm wrote:

>OK, folks. I've seen slightly conflicting info on how to attach the TiCK
 >telemetry signal, but I think I can make it work.

>

>However, I do have a question. From what I can tell, the TiCK mod leaves in
 >C33 and R18. What purpose do they serve at that point? I don't think they
 >are needed for the op-amp. C32 seems somewhat superfluous, too, and the
 >different approaches to the mod seem to attach the TiCK audio to one side or
 >the other, if I'm reading them correctly.

>

>Any comments?

Yes...I have some. C33 and R18 form a voltage divider with R17, so that the TiCK audio level is comparable to the signal level from the receiver.

I used a slightly different approach than others, (I seem to do that) in that I left did the standard trace cut which disconnects R17 from the output of U4E. I also cut the trace on the "A" side of C32. My R17 is 10Meg, C33 is 0.01uF, R18 is 5.1K, and C32 is 0.1uF. The output side of C32 is routed directly to the junction of R19, C34, and R20, i.e., the summing junction of op amp U5A. I still have too much side tone audio, but it is tolerable. I still think there is some other coupling going on via the power supply, ground loop, ???? that is making the side tone so loud. I saw no difference in signal level with R17 at 2.2Meg or 10Meg. That shouldn't be!! But I haven't had time to dope out what is going on. Too busy running the rig on the air.

Speaking of that, I worked 2 CA stations tonight about 0000Z, so the 'ol band is doing good again. :-)

72....Jim

Jim Kortge, K8IQY (ex NU8N)		BMHA, NorCal, QRP-L
jokortge@tir.com		__o Cascade 17/40 SSB
Fenton, MI		_'\<, Mizuho 17/40 SSB
...	(*)/(*)	.

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
Subject: [11832] Re: NC38s:noise reduction mod
Message-ID: <1997Feb12.190517-0500@[130.113.234.7]>

Bob Okas suggested adding a 470 ohm series resistor to the NE602 supply line to reduce the 7808 regulator noise, and add a 10uf electrolytic in parallel with the 0.1uf supply bypass capacitor....

Just looked at the noise spec from Motorola, on the 7808. They say wideband noise is (10 Hz to 100 Khz) 80uv, typical. I've measured the input noise (over the narrow bandwidth of the audio filter) of a few microvolts. That works out about right. That IS quite a bit, probably masking atmospheric noise @ U3's output. I'd guess that the 7808-generated noise @ 12Mhz would be much less, and its output impedance much higher, so that the 0.1uf supply bypass capacitor across each NE602 would be very effective (for R.F.). But not at audio frequencies, as you say. So U1 is likely safe, U3 is not.

A differential amplifier at U3, pins 4, 5 would certainly help reduce the impact of audio noise on the supply line, but this is a major mod.

Some time ago, a surface-mount choke was added to the offending +8v line feeding U3. The noise went down, but this mod added a terrific thump to an already thumping 38s. So out it went, replaced with a wire jumper. Still thumps, but more quietly. Perhaps it was added too far back, so that filtered Vcc was feeding other chips as well. Vcc changed quite a bit when switching from TX to RX, enhancing the thump. Sure hope you don't have a thumper. (some do, other's seem immune).

At 6.5 volts, you may not get enough TX signal when this chip is used as the TX mixer. Don't know enough about the NE602 internal biasing to tell if running at a lower voltage will reduce gain, or increase spurs.

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: [11947] Re: New Vanity Call and Fox Score
Message-ID: <199702132217.WAA23481@chuck.dallas.sgi.com>

Dan,

Two things.

1. A card laid is a card played, as they say in the casinos.
:-) I'll change you call on the scores. No charge.
2. March 18th most likely will not be the last FOX. N6GA
Cam has one more shot at his round.

dit dit

cc: qrp-1

SIG

Chuck Adams K5FO adams@sgi.com DXCC=8
http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Mark Arvidson <arvidson@swbell.net>
Subject: [11891] Re: NorCal Meeting and Parts
Message-ID: <3303324C.3ED9@swbell.net>

john andrews wrote:

< snip >

> I've tried from time to time to *give* stuff away. Can't be done.

< snip >

>

> I did give a few sets away with a few responses like:

> 1. "What's an S.A.S.E?"

> 2. " You bettcha! Hold a set for me!"....E-mail 2 weeks later sez"Well..

> Really just don't have time....Sorry."

< still snipping >

I guess I'm just junk-box challenged due to my age and recent entry into the HB field, but I can't currently understand why people would turn down FREE parts! I've got a big basement! (Hope my XYL doesn't read this list! She gets annoyed with me for drooling over trashed tv's on the side of the road...)

Hmm...Maybe the problem with "Quality Junk-Blessed" people and "junk-challenged" people like myself are that we need to get together better to distribute the wealth. For example, I haven't spent much time hanging around people with lots of good stuff, and I bet those with stuff don't spend time with under-stocked people. Thank God for QRP-L. It puts HUNDREDS of knowledgeable and willing elmers at my fingertips!

Ever thankful for this list and the horizons it has opened for me...
Mark Arvidson
KB0SPQ (still studying for 13 WPM)

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: dwink@juno.com (Daniel C Winkler)
Subject: [11865] Re: prevent polarity problems
Message-ID: <19970212.223918.20311.1.DWink@juno.com>

On Mon, 10 Feb 1997 15:24:32 -0500 ldeering@idt.net (Larry Deering) writes:

>What, you don't have a fuse? Not to worry, the insulation will melt
>off and
>when the wire shorts to the cars chassis, then the wire is the fuse!

. . . and the car is the bomb.

Use a fuse.

73, ; D DWink@Juno.com Dan Winkler N7IVR Seattle, WA

-----whom the gods would destroy, they first make proud -----

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Steve/N0TU <N0TU@webaccess.net>

Subject: [11893] Re: QSL on the way.
Message-ID: <330333CE.1CD3@webaccess.net>

William E. Smith wrote:

>
> Steve,
> Yesterday I was playing around in the garage with the HW-9 and small loop
> antenna stapled to the underside of the garage eaves. After calling CQ a
> couple of times, I thought I may have heard someone in there very weak.
> After a QRZ?, sure enough there you were. I didn't have my earphones with
> me in the garage so the HW-9's matching speaker had to suffice. I asked
> for repeats of your QTH because I wasn't sure I had copied "In a snow
> cave" correctly. There was QSB on you and your signal ranged from 449 to
> 339. Also I had to run a couple of QRO guys off that just started calling
> on freq. But I would say we had a pretty good QSO.
>
> To tell you the truth, I got pretty excited about it. A two way QRP QSO
> between a guy sitting or more likely laying in a snow cave in the
> Colorado mountains and a guy in the in his garage on a makeshift antenna
> in the middle of the Mojave Desert doesn't happen every day. This will go
> down in the log as one of my most memorable QSO's
>
> Thanks - My QSL is on the way.
>
> Bill WA6YPE
> Newberry Springs, CA

Hi Bill,

Wow was I glad to finally work someone!!!! After I called stns and CQ till I was blue in the face or was blue in the fingers and feet....25 degs F in the snow cave. Arrived on at the saddle on Walton Mtn. about 3 miles from Rabbit Ears Pass near Steamboat Springs, Colorado Saturday PM...we forgot the tent poles so we were forced to build the snow shelter...pronto! Sunday...I put up the ant(inverted vee for 40m) about 30' up on this pine tree....setup my OHR Explorer II...Then the big test!...would everything work? Keyed the rig and tuned the ant...power was moving the SWR mtr so must have a sig going to the antenna-Right??...but no contacts humph!...NOTHING till I change the direction of the antenna 90 degrees It was facing NS...changed it to EW maybe more SW/NE anyway thats when we hooked up! I realized it's alot of damn work to make contacts via QRP...QRP ain't for the "GIVER-UPPER" types or faint of heart cuz you really have to want to dig in and work at it!!! I called and recheck my hookup for 6 hrs before made a contact!!... but it sure is worth it when you succeed!!! I called you once before (I think) but I called so many I'm not sure...unbeliveable when I realized you had seen my post or knew about it on the QRP-L!! Really was the best QSO of my QRP/portable adventures!!! Regretfully I

only made 4 contacts before shutting down! but I sure improved my sending speed via the old knee key calling so many stations w/no response...but sure was great to listen to a noiseless band - NO manmade QRN!!! I'll put this info on my webpage as soon as I get the pictures together...I'll send a QSL via urs! and scan yours for my webpage and include the story of Rocky Mountain Snowcave to Mojave Desert garage or ? QRP to QRP...I was runing less than a watt!!! maybe less cuz my battery didn't like the cold...I used chemical hand warmers and wrapped it in my sleeping bag to try keeping it warm...Talk about adverse conditions!! we had great WX sunny but cold highs 32 degs spent alot of time melting snow for drinking water...used a pint of fuel a day!...more later on the webpage....Tks agn - Steve . .

My New Address: Just moved and I need to update the FCC...etc

1515 Owl Ridge Drive
Co Spgs, Colorado 80919

portable/solar powered QRP
49er/HW8/ExplorerII/Zepp in attic @ CO SPGS,CO
HTTP://www.webaccess.net/~S&P

QRP-L # 911
ARS# 206
Steve-N0TU

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Laura" <sputnik@imt.net>
Subject: [11831] Re: Rain-Flu-DX
Message-ID: <199702122357.QAA24728@cu.imt.net>

So, Owen...too sick to go to work but not quite sick enough to play on the bands, eh?? You better hope nobody rats on you!! Nah, I'd do the same thing! Get well soon! (Couldn't help razzing you!)

73 ~

Laura

Laura Marino Lubner, KJ7UN - Reese Creek Montana USA
sputnik@imt.net http://www.imt.net/~sputnik
GHRC / ARRL / NORCAL / 10-10 # 68896
FISTS # 2785 / MARC / QRP-L # 790

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: jim <kw3u@warwick.net>

Subject: [11918] Re: Ramsey Kits
Message-ID: <3303AA83.5A35@warwick.net>

highland@cityscape.net wrote:

>
> Having fought with 2 used HF transmitters, that I still have been unable
> to get working I've been looking for alternatives, right know Ramseys,
> 80 or 40 meter transmitters are looking pretty good. Anybody have
> anything good or bad to say about these kits?
>
> de KA9KQH, Dwayne
> --
>quitely making noise.....
> mailto:highland@cityscape.net Hey Dwayne, I built a 40m ramsey and works gud. I
really like the
built in T/R switching so i can run any receiver with it.
its cheap! Have read about signal purity not being great, but
I have made many contacts plus it sounds good in my rcvr.
BTW going to integrate it soon as a xcvr using the ten-tec
anyband rcvr in a box with it. details at 11:00.
73 Jim

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>
Subject: [11936] RE: RF samplers
Message-ID: <61566.owen@piper.eeel.nist.gov>

In message Thu, 13 Feb 1997 15:45:56 -0500 (EST), PDouglas12@aol.com writes:

> Hi Gang,
>
> I was wondering what the pundits do to look at transmitter output with
> their scopes. Obviously, one doesn't put the output of even a 5W rig
> directly into the scope input, let alone trying that with a 100watt rig.
> Right?

Connect Rig to 50 ohm dummy load and connect low C scope probe to output of
rig. $P = E^2/R$ so with 100 watts output voltage across 50 ohm load is 70.7
Volts, well within the scope's rating. A good rule of thumb to remember is
that 50V across 50 ohms is 50 watts.

72 Jim K4CGY qrp-1 #72

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Dah-Jyuu Wang <ddw2@Lehigh.EDU>
Subject: [11938] RE: RF samplers
Message-ID: <1.5.4.32.19970213212914.0069f26c@lehigh.edu>

>> Hi Gang,
>>

>> I was wondering what the pundits do to look at transmitter output with
>> their scopes. Obviously, one doesn't put the output of even a 5W rig
>> directly into the scope input, let alone trying that with a 100watt rig.
>> Right?

>Connect Rig to 50 ohm dummy load and connect low C scope probe to output of
>rig. $P = E^2/R$ so with 100 watts output voltage across 50 ohm load is 70.7
>Volts, well within the scope's rating. A good rule of thumb to remember is
>that 50V across 50 ohms is 50 watts.

The peak-to-peak voltage is actually 200 V which is still within the rating
of most scopes especially if you use a 10X type.

DJ Wang, N2YKP/3
QRP-L #71
Dah-Jyuu Wang, Ph.D.
Department of Chemistry
Lehigh University
Bethlehem, PA 18015-3172
610-758-3463

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: JEVERHART@cayman.vf.mmc.com
Subject: [11929] Re: Thumper 8 volts, 4066's and ne602's
Message-ID: <970213152409.2020591e@cayman.vf.mmc.com>

Brad, you wrote, in part:

>Well, I have a few pages on cmos switches that
>I pulled from an engineering book more than 2 years ago.
>
>According to this, the 4066 handles voltages to +- 7.5 V.
>
>I have to look at the orange 4000 series cmos book,
>and see, as well as the schematic,

> but if we're trying to put 8V d.c. into the
> switch and it's rated for +- 7.5 as this book says,
> then maybe there is a source of "something" ..

Be careful with what you saw!

The CD4066 is good for + and - 7.5 volts when fed from power supplies of + and - 7.5 volts! With a single ended supply, it is good for up to 15 volts! And that according to my purple RCA data book circa 1975, when i used the danged things at that supply voltage all the time!

OTOH, I don't have a 38 special schematic handy to check, but... If you use a single-ended supply (eg 8 volts) and try to pass ac signals that go below ground, CMOS circuits can do strange and usually not-so-wondrous things. In other words, the input and output signals have to be between the + and - supply voltages.

72/73,

joe E., N2CX

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [11939] Re: Thumper 8 volts, 4066's and ne602's
Message-ID: <199702132121.PAA28148@multi13.netcomi.com>

Notice that the 4066 switch between pins 1 and 2 has DC bias at 8 volts. When switching between transmit and receive, this switch and the one between pins 3 and 4 must swing from a DC level of 8 volts to ground, depending on the leakage current, fed by the (relatively) large 47 pF cap. During the transitions, the switch is momentarily hit with 8 volts +- 1 volt and possibly 0 volts +- 1 volt. Could be the protection diodes are turning on or partly on during the switchover. This would generate a nice thump.

I need to put it on the scope to see how it goes.

If this is indeed causing a problem, a 10K resistor from U2 pin 2 to ground might help. Maybe moving R6 to the same node might be necessary, too.

Mike K1MG

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Ed Pacyna <pacyna@auratek.com>
Subject: [11952] Re: Thumper 8 volts, 4066's and ne602's
Message-ID: <3.0.16.19970213173244.37ffd1a6@galaxy.auratek.com>

At 01:20 PM 2/13/97 -0800, you wrote:

>

>Notice that the 4066 switch between pins 1 and 2 has DC bias at 8 volts.

How do you figure this?

Everything is AC coupled in this circuit (DC blocked by a capacitor).

Hint: Consider equivalent circuit model of a crystal.

You time might be better spent looking at the connection from pin 4 on U3.
This one does put +V on pins 9 & 10 of U2, which eventually to the AF
amplifier. I would additionally bypass pin 5 on U3 to ground (currently nc).

Ed
W1AAZ

PS - Brad Mitchell, WB8YGG, makes a good point regarding to high a supply
voltage on NE602's causing some kind of break-down noise. The maximum not
to exceed voltage is 9V, however I have seen a number of NE 602's get
noisier (sounds like static) when operated at 8V. In addition, the NE602
data sheet does show a higher noise figure (as in white noise) operating at
8V (vs. 6V).

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Lee Richey" <lee@radioadv.com>
Subject: [11953] Re: Thumper 8 volts, 4066's and ne602's
Message-ID: <199702132234.RAA58442@nss2.CC.Lehigh.EDU>

> I have to look at the orange 4000 series cmos book,
> and see, as well as the schematic,
> but if we're trying to put 8V d.c. into the
> switch and it's rated for +- 7.5 as this book says,
> then maybe there is a source of "something" ..

The plain old 4000 series 4066 is rated around 18 volts. (+/- 9

is ok too) As long as ALL control and signal terminals are within the range of Vdd to Vss, the switch will work as advertised. NEVER EVER allow a control or signal pin exceed either supply rail!

>between pins 3 and 4 must swing from a DC level of 8 volts to ground,
>depending on the leakage current, fed by the (relatively) large 47 pF cap.

>During the transitions, the switch is momentarily hit with 8 volts +/- 1
>volt and possibly 0 volts +/- 1 volt. Could be the protection diodes are
>turning on or partly on during the switchover. This would generate a nice
>thump.

The control signal couples very little energy into the switch circuit during the switching action and the leakage current is hardly measureable. As long as the signal lines are connected into any reasonably low to medium impedance, the switching action will have no effect on the signal lines. There should be no reason why the protection diodes would turn on unless there is no DC return for a signal (or control) line. This is highly unlikely, but possible I suppose.

In applying the 4066 or any other CMOS switch in an audio circuit, I have found the best arrangement to be:

- 1 DC bias the signal lines to 1/2 Vdd and capacity couple if possible.
- 2 Insert the switch at the highest signal point possible without exposing it to any possibility of the signal exceeding the Vdd/Vss range on peaks.
- 3 A load impedance of greater than 5K and less than 100K.

I'm still willing to bet that the 4066 is not the culprit. It's application may be, but not the part itself. I still suspect a DC shift in the signal path somewhere. If it is not the sidetone generator, how about the detector or audio amp. Maybe the power supply is shifting a little between TX and RX and is causing a shift in bias points in the detector or amplifier stages.

How much gain follows the 4066? Hopefully not too much. (see 2 above) If there is a lot of gain after the 4066, very little offset in DC level between TX and RX can cause a major problem. For example, let's say there is 1 millivolt DC offset between TX and RX audio lines. If the switch is inserted at a point where the following circuit gain is,

say 20db, the output pulse (thump) would be 10 mV. On the other hand, if the switch is inserted at a point where the following gain is, say 60db, the output pulse would be 1 volt! That would be some thump.

I'm kind of whistling in the wind here since I don't have a 38s nor do I know exactly how it is configured, but I do know that there is hardly a better switch available to us at any reasonable price than the 4066 as long as you follow the rules.

Good luck.

-Lee-

<http://www.radioadv.com>

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [11955] Re: Thumper 8 volts, 4066's and ne602's
Message-ID: <199702132248.QAA32265@multi13.netcomi.com>

U2 pin 1 is connected to +8 volts through R6, a 1.3k resistor. Since everything else on that node is AC coupled, it sits at 8 volts.

Mike K1MG

> >Notice that the 4066 switch between pins 1 and 2 has DC bias at 8 volts.
>
> How do you figure this?
>
> Everything is AC coupled in this circuit (DC blocked by a capacitor).
>
> Hint: Consider equivalent circuit model of a crystal.
>
> Ed
> W1AAZ

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [11958] Re: Thumper 8 volts, 4066's and ne602's
Message-ID: <199702132307.RAA00494@multi13.netcomi.com>

Lee --

> ...
> >between pins 3 and 4 must swing from a DC level of 8 volts to ground,
> >depending on the leakage current, fed by the (relatively) large 47 pF
cap.
>
> >During the transitions, the switch is momentarily hit with 8 volts +/- 1
> >volt and possibly 0 volts +/- 1 volt. Could be the protection diodes are
> >turning on or partly on during the switchover. This would generate a
nice
> >thump.
>
> The control signal couples very little energy into the switch circuit
> during the switching action and the leakage current is hardly
> measureable. As long as the signal lines are connected into any
> reasonably low to medium impedance, the switching action will
> have no effect on the signal lines. There should be no reason why
> the protection diodes would turn on unless there is no DC return for
> a signal (or control) line. This is highly unlikely, but possible I
> suppose.

I wasn't speaking about the switch control signal leaking to the signal path. I was talking about DC leakage to substrate in the fet channel. Pin 2 is held at +8v +/- signal during receive and gets switched to open circuit at DC during transmit. The 8v charge on C17 drains to ground through U2 channel leakage and the 5 pF C11. Since the leakage current is so small, pin 2 will remain at +8 volts for a long time, during which it has an additional +/- 0.5 to 1 volt AC signal superimposed. If the node does leak all the way down to 0v DC, it will have as much as -1 volts (your signal levels will vary) below ground due to the transmit signal. This, of course, is all speculation, since I don't have the board on the bench right now to look at the signals with a scope.

>
> In applying the 4066 or any other CMOS switch in an audio circuit, I have
> found the best arrangement to be:
>
> 1 DC bias the signal lines to 1/2 Vdd and capacity couple
> if possible.
>
> 2 Insert the switch at the highest signal point possible
> without exposing it to any possibility of the signal exceeding
> the Vdd/Vss range on peaks.
>
> 3 A load impedance of greater than 5K and less than 100K.

>

All very good guidelines.

> I'm still willing to bet that the 4066 is not the culprit. It's
> application
> may be, but not the part itself.

Semantics. The noise originates within the 4066 due to the way it is being used in the circuit.

> I still suspect a DC shift in the
> signal path somewhere. If it is not the sidetone generator, how about
> the detector or audio amp. Maybe the power supply is shifting a
> little between TX and RX and is causing a shift in bias points in the
> detector or amplifier stages.
>

Good suspicions.

> How much gain follows the 4066? Hopefully not too much. (see 2
> above) If there is a lot of gain after the 4066, very little offset in
DC
> level between TX and RX can cause a major problem. For example,
> let's say there is 1 millivolt DC offset between TX and RX audio lines.
> If the switch is inserted at a point where the following circuit gain is,
> say 20db, the output pulse (thump) would be 10 mV. On the other
> hand, if the switch is inserted at a point where the following gain is,
> say 60db, the output pulse would be 1 volt! That would be some
> thump.

Could also be part of the problem.

>

> I'm kind of whistling in the wind here since I don't have a 38s nor do
> I know exactly how it is configured, but I do know that there is hardly
> a better switch available to us at any reasonable price than the 4066
> as long as you follow the rules.

Get hold of a recent copy of the schematic. Your experience may shed some more light on things. We appreciate any help.

>

> Good luck.

>

> -Lee-

Thanks,
Mike K1MG

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Ed Pacyna <pacyna@auratek.com>
Subject: [11960] Re: Thumper 8 volts, 4066's and ne602's
Message-ID: <3.0.16.19970213184304.379727d0@galaxy.auratek.com>

I do not have one of these radio (have just been seeing a lot of 38S problems and wanted to help). I am using a diagram from the NorCal Web page (dated 2/3/97) and R6 is shown as a 10K resistor that provides bias current to D4 at key closure.

D4 then shunts out C15 and provides Rx/Tx off-set frequency change. R6 has nothing to do with U2, pin 1.

Seems like the documentation is erroneous and I'm more than happy to bow out of this (but do look further into the value of C16 which BTW my schematic shows as 22uF).

Ed
W1AAZ

At 02:47 PM 2/13/97 -0800, you wrote:

>U2 pin 1 is connected to +8 volts throught R6, a 1.3k resistor. Since
>everything else on that node is AC coupled, it sits at 8 volts.

>

>Mike K1MG

>

>

>> >Notice that the 4066 switch between pins 1 and 2 has DC bias at 8 volts.

>>

>> How do you figure this?

>>

>> Everything is AC coupled in this circuit (DC blocked by a capacitor).

>>

>> Hint: Consider equivalent circuit model of a crystal.

>>

>> Ed

>> W1AAZ

>

>

>

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997

From: Ed Pacyna <pacyna@auratek.com>
Subject: [11959] Re: Thumping 38S's
Message-ID: <3.0.16.19970213181858.34f79966@galaxy.auratek.com>

Here is another thought.

The 22uF coupling capacitor, C16, that connects the product detector, U3 and the audio pre-amp (U5A) does not need to be so big. With the R values shown, the lower corner frequency is 1.5Hz. A .1uF capacitor will have a corner frequency of 338Hz.

In addition, if you want to AC couple pin 4 of U3 to pins 9, 10 of U2, use a .22uF capacitor between these two points and at C16 as well. The series combination will be near .1uF.

Ed
W1AAZ

From owner-qrp-l@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: torell@sicom.com (Kent Torell)
Subject: [11898] Re: Toroid Data Needed
Message-ID: <v02130500af28e1729735@[192.91.202.41]>

You've probably already got this, but:

>Dimensions of a T-30 core - ie - OD, ID, and Thickness

OD is the core number! -30 is 0.300, -37 is 0.370, etc. A -30 has actual specs of 0.307 +/- .005 OD, ID of 0.151 +/- .005, Thickness of 0.128 +/- .008 - .005

>Does anyone know if T-30 cores really exist??)

I use them at work here all the time.

>Color marking for powdered iron number 7 mix - ie - T50-7

White

>Color markings for ferrite 61 mix - ie - FT37-61

>Color markings for ferrite 43 mix - ie - FT23-43

These usually aren't marked. Sometimes there is a paint blob, but the cores we get all look like ferrite; no paint or coating or anything. Almost impossible to figure out what kind it is. Some folks wind a core and measure the inductance.

Amidon is a distributor for Micrometals and others. This info comes from the Micrometals catalog (scarce as hen's teeth....I have a xeroxed copy from

the early 80's.)

73, ab7oa

Kent Torell torell@sicom.com 602-483-2867 x230
SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260
AB70A qrp-1 57 ARCI 9075 DM33xn 33.55 N 111.078 W

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "KA5T Larry Wise" <lewise@inetport.com>
Subject: [11920] RE: Toroid Data Needed - Thanks...
Message-ID: <199702131944.NAA13109@admin.inetport.com>

Thanks to all who resonded

The most significant tidbit of data that I got was that there is more toroid data in the Electrical Fundamentals section of the ARRL Handbook (1992 edition) than in the Component Data section!!! When I looked in there I saw that I'd been there before (chicken scratchins y'know..). (I now have a pointer in there to remind me...)

Yes Virginia, the T-30 seems to be very common...
No Virginia, Mix number seven does not seem to be used...
And Virginia, identifying and keeping track of the different ferrite types seems to be left as an exercise for the user.... :-)

Go figure....

Still learning....
Larry,

KA5T - Larry Wise - Georgetown, Texas - lewise@inetport.com QRP-L 89
ex: KN8OSG K8OSG(1959-1967 MI) W6HED(1967-1968 Ca) W4ZTB(1968-1978 Fl)

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)
Subject: [11943] Re: Wed. Fox Report
Message-ID: <v01540b02af293d34fa4c@[157.142.56.167]>

And now for a little Interstate 35 ribbing:

>High scoring states:

> CA: 16
> AZ: 5
-----> OK: 5
-----> TX: 4
> NM: 3
>

(Hope they let me south of the Red River again!) ;-)

72/73,
Mike N5JKY
Edmond, OK

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: Joe Gervais <vole@primenet.com>
Subject: [11946] Re: Wed. Fox Report
Message-ID: <199702132210.PAA27126@usr07.primenet.com>

Mike (N5JKY) wrote:

> And now for a little Interstate 35 ribbing:
>
> >High scoring states:
> ...
> > AZ: 5
> -----> OK: 5
> -----> TX: 4

You know, I was just going to say that some of the
"big boys" in CA and TX better stay on their toes.
AZ and OK have been nipping at their heels for awhile
now. If we each get just a few more stations on the
air, there may be some new Big Dogs on the block. :-)

Did I mention that a 'Zonie (good ol' Floyd NQ7X) is
the lead hunter right now? :-)

Cheers de AB7TT (ex-KC7NEV),

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

PS- Thanks for pulling me in last night, Larry!

From owner-qrp-1@Lehigh.EDU Thu Feb 13 18:00:45 1997
From: "KA5T Larry Wise" <lewise@inetport.com>
Subject: [11950] Re: Wed. Fox Report
Message-ID: <199702132231.QAA19488@admin.inetport.com>

Arrrgggghhhh!

Look at that... CA 16, TX 4

And Larry was coming here about S7 along about
0320 when there didn't seem to be too many takers...

I got him earlier, nice sig...

But, do you think I could find that novice Fox ?????
Not on your life....Even when he was reported setting
right on 7112 on the net!!!!

Ain't propagation wunnerful?????

Larry

KA5T - Larry Wise - Georgetown, Texas - lewise@inetport.com QRP-L 89
ex: KN80SG K80SG(1959-1967 MI) W6HED(1967-1968 Ca) W4ZTB(1968-1978 Fl)